

Worklist: 3943

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
C2019-2451	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2019-2454	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2019-2455	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2019-2456	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2019-2459	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2019-2466	1	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ	
C2020-0008	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2020-0012	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2020-0033	3	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2020-0034	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2020-0035	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2020-0055	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2020-0056	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	

BW

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

Extraction Date 1/15/20
Plate lot#: 190729 (part IDP-111)

Analyst: Britany Wylie
Plate Expiration: 1/29/20

Mobile phase A: 5mM Amm Form + 0.01% FA
0.5M Ammonium Hydroxide
Mobile phase B: 0.01% Formic Acid in MeOH
Ethyl Acetate 20% Methanol in Water
Blank Blood Lot: 19H52275-1 **Urine Blank lot:** 11420 **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. Urine samples add 50 ul 1% HCl in MeOH, 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: amphetamine 5-500, buprenorphine 1-50, clonazepam 10-1000, metoprolol 5-100, norhydrocodone 5-250, oxazepam 25-1000, trazodone 5-500, **Mitragynine 5-500**

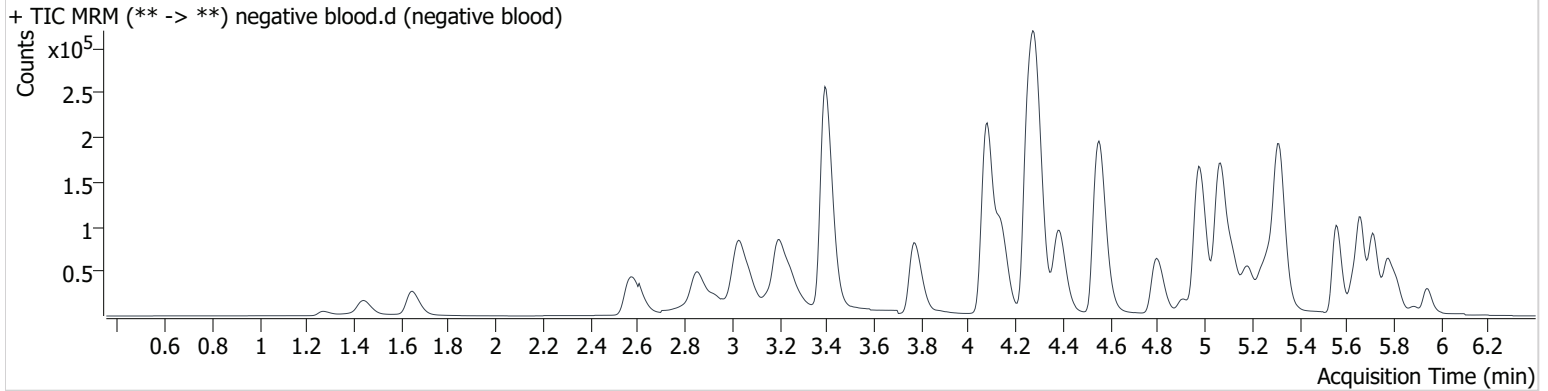
Not Evaluated: Lamotrigine and norbuprenorphine

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020 Data\am 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Calibration Last Update 1/16/2020 9:44:29 PM

Instrument	69679	Data File	negative blood.d
Type	Sample	Sample	negative blood
Acq. Method	mdq p1 cda 121818.m	Operator	Britany Wylie
Sample Position	P2-E7	Comment	
Injection Volume	2		
Acq. Date-Time	1/15/2020 10:24:42 PM		
Sample Info.			

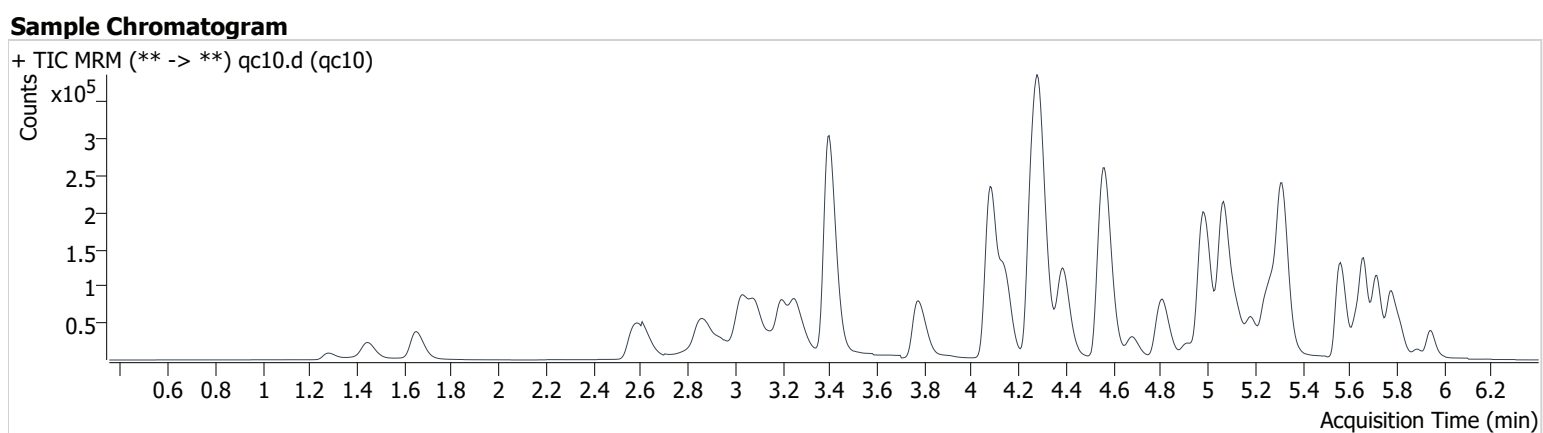
Sample Chromatogram



AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020 Data\am 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Calibration Last Update 1/22/2020 2:44:41 PM

Instrument 69679 **Data File** qc10.d
Type QC **Sample** qc10
Acq. Method mdq p1 cda 121818.m **Operator** Britany Wylie
Sample Position P2-A7 **Comment**
Injection Volume 2
Acq. Date-Time 1/15/2020 8:58:31 PM
Sample Info.



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.168	1681	1849.9	76.4	1557.2	48999	0.939 ng/ml
7-aminoclonazepam	4.297	25025	75.3	78.0	1046.5	111136	9.723 ng/ml
a-hydroxyalprazolam	5.709	1315	953.7	63.3	691.3	6457	10.299 ng/ml
alpha-PVP	4.397	70041	1035.9	54.0	529.7	308283	10.068 ng/ml
Alprazolam	5.777	25325	1311.2	100.2	572.2	76627	10.603 ng/ml
Amphetamine	3.096	100795	591.7	54.0	307.9	176409	10.701 ng/ml
Benzoylcegonine	3.906	2115	356.5	9.7	435.2	8304	9.235 ng/ml
Buprenorphine	5.842	481	431.3	13.8	173.1	16036	1.111 ng/ml
Bupropion	4.824	57925	2431.8	61.3	453.5	228394	10.137 ng/ml
Carisoprodol	5.728	19836	9704.4	60.3	213.3	95410	10.203 ng/ml
Citalopram	5.251	34444	1267.3	39.4	4660.3	148944	10.321 ng/ml
Clonazepam	5.622	2990	136.5	32.5	820.6	5661	10.125 ng/ml
Cocaine	4.291	65147	1129.5	47.0	5278.6	532542	9.676 ng/ml
Codeine	2.638	10630	261.7	98.3	148.1	49563	9.750 ng/ml
Cyclobenzaprine	5.635	26686	878.0	9.4	1894.1	110484	10.035 ng/ml
Dextromethorphan	5.295	19375	38.3	80.3	12766.7	98869	9.238 ng/ml
Dextrorphan	4.146	22926	6507.1	216.1	522.1	258006	10.229 ng/ml
Diazepam	5.947	14846	1738.8	88.5	11619.3	71587	9.480 ng/ml
Dihydrocodeine	2.606	26538	2317.2	70.6	426.8	158814	10.160 ng/ml
Diphenhydramine	5.321	93578	1412.3	34.1	1546.8	518078	10.384 ng/ml
Doxylamine	4.574	171143	1720.7	95.1	24176.5	741475	9.915 ng/ml
EDDP	5.284	8061	9149.1	238.7	280.1	92986	10.262 ng/ml
Fentanyl	5.143	3250	227.1	63.4	1031.0	160737	1.106 ng/ml
Fluoxetine	5.710	31284	3474.2	8.4	349.4	126170	10.268 ng/ml
Hydrocodone	3.063	26867	667.2	43.0	221.7	161370	10.359 ng/ml
Hydromorphone	1.658	26826	1343.7	79.0	2464.0	109764	9.908 ng/ml
Ketamine	4.092	63235	32056.0	33.7	283.0	300953	10.208 ng/ml
Lamotrigine	4.324	6730	579.6	91.3	272.0	98869	13.118 ng/ml
Lorazepam	5.750	1410	198.9	59.4	5.8 Low >5	76627	11.528 ng/ml
Meprobamate	4.937	12046	14134.7	30.5	721.2	58372	9.974 ng/ml
Methadone	5.664	45463	30248.7	58.6	2461.4	233453	10.181 ng/ml
Methamphetamine	3.264	123534	225.7	44.2	152.3	271654	11.440 ng/ml
Metoprolol	4.349	15919	1558.4	101.3	801.7	741475	9.965 ng/ml

AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.686	62920	250.9	49.7	1743.1	233453	10.146 ng/ml
Mitragynine	5.271	7611	7056.2	34.5	594.2	233453	10.900 ng/ml
Morphine	1.287	5465	17995.1	26.8	5401.5	4583	10.009 ng/ml
Norbuprenorphine	5.024	67	87.2	91.7	43.7	2662	2.116 ng/ml
Nordiazepam	5.892	5746	4762.0	58.7	3192.7	19243	10.230 ng/ml
Norfentanyl	4.107	10355	140.6	41.8	168.5	471229	1.007 ng/ml
Norhydrocodone	3.094	1219	177.2	41.6	34.0	46677	9.081 ng/ml
Noroxycodone	2.956	17879	284.5	47.3	488.3	64167	10.015 ng/ml
O-desmethyl-tramadol	3.405	169035	9522.1	6.3	883.4	897052	10.403 ng/ml
Oxazepam	5.758	1873	153.5	72.1	38.7	10907	8.155 ng/ml
Oxycodone	2.884	44528	1497.9	32.4	576.4	220650	10.358 ng/ml
Oxymorphone	1.450	20677	152678.1	48.7	16.5	81260	9.694 ng/ml
Phentermine	3.808	27029	41.4	5.8	47.0	290255	10.430 ng/ml
Promethazine	5.563	50870	3363.0	32.9	690.5	227056	10.351 ng/ml
Quetiapine	5.581	41500	23461.7	60.7	708.6	57809	10.180 ng/ml
Sertraline	5.777	14451	395.9	93.6	685.8	64601	9.894 ng/ml
Temazepam	5.819	13097	243.1	30.7	59.7	63636	9.634 ng/ml
Tramadol	4.273	164152	402.9	3.5	395.1	829713	10.462 ng/ml
Trazodone	5.245	41884	3614.0	81.4	6997.2	181028	10.526 ng/ml
Venlafaxine	5.068	110299	2401.1	38.6	989.4	581314	10.103 ng/ml
Zolpidem	5.000	131971	18892.6	28.3	694.6	632209	10.095 ng/ml

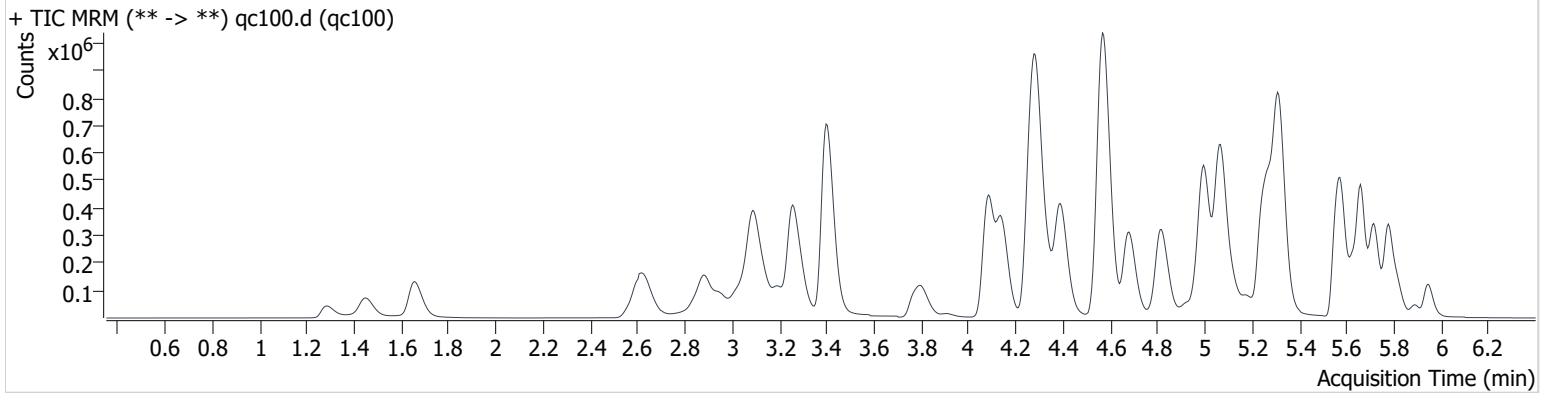
OCR= Outside curve range

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020 Data\am 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Calibration Last Update 1/22/2020 12:23:41 PM

Instrument	69679	Data File	qc100.d
Type	QC	Sample	qc100
Acq. Method	mdq p1 cda 121818.m	Operator	Britany Wylie
Sample Position	P2-B7	Comment	
Injection Volume	2		
Acq. Date-Time	1/15/2020 9:09:22 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.168	16436	3269.2	70.7	32790.3	46307	9.799 ng/ml
7-aminoclonazepam	4.297	198156	2756.4	76.8	10183.3	91748	102.433 ng/ml
a-hydroxyalprazolam	5.704	11238	944.9	62.4	838.9	6078	96.436 ng/ml
alpha-PVP	4.397	696370	73831.8	53.6	8131.6	318815	95.001 ng/ml
Alprazolam	5.777	222238	2664.7	98.6	2144.9	69678	97.268 ng/ml
Amphetamine	3.096	875948	5168.8	52.6	3063.0	183325	103.360 ng/ml
Benzoylcegonine	3.911	19257	28044.5	8.8	1881.6	7778	93.872 ng/ml
Buprenorphine	5.837	5157	2900.6	17.0	945.2	18246	9.693 ng/ml
Bupropion	4.819	614189	204064.2	61.6	1342.4	250144	100.792 ng/ml
Carisoprodol	5.728	168393	2540.2	62.9	2405.2	83904	98.292 ng/ml
Citalopram	5.251	377455	25579.1	39.2	123557.9	172672	99.293 ng/ml
Clonazepam	5.622	26435	2385.7	34.1	7220.6	5359	101.379 ng/ml
Cocaine	4.291	609841	825.8	46.3	22930.7	511636	95.391 ng/ml
Codeine	2.638	92990	602.5	100.0	1660.6	44650	98.938 ng/ml
Cyclobenzaprine	5.635	302097	279221.9	9.5	2613.9	127851	99.950 ng/ml
Dextromethorphan	5.295	229760	81789.1	77.2	52365.3	112891	97.980 ng/ml
Dextrorphan	4.146	235882	52897.0	215.2	395.1	271185	101.174 ng/ml
Diazepam	5.947	137029	15624.9	87.4	15808.1	65046	101.798 ng/ml
Dihydrocodeine	2.606	246144	612.8	71.7	39126.3	154574	104.943 ng/ml
Diphenhydramine	5.321	1063523	7826.3	34.5	20577.0	607044	95.687 ng/ml
Doxylamine	4.574	1740072	22916.3	94.3	141761.6	775446	98.463 ng/ml
EDDP	5.284	110598	3722.9	240.0	97855.6	133520	98.555 ng/ml
Fentanyl	5.138	37380	6045.8	65.7	2201.0	197967	10.047 ng/ml
Fluoxetine	5.710	337839	2502.4	8.2	21362.9	142492	100.351 ng/ml
Hydrocodone	3.063	219675	1916.6	48.8	1343.6	159179	92.184 ng/ml
Hydromorphone	1.658	249744	14200.3	79.1	14828.7	105792	96.150 ng/ml
Ketamine	4.092	596938	2070.0	35.1	2949.3	298454	102.549 ng/ml
Lamotrigine	4.324	58635	3255.3	88.8	30326.7	112891	89.633 ng/ml
Lorazepam	5.750	10403	346.7	67.0	234.4	69678	95.271 ng/ml
Meprobamate	4.932	102549	138329.8	30.6	5811.0	53090	102.501 ng/ml
Methadone	5.664	529379	580613.2	56.5	5090.4	281988	99.448 ng/ml
Methamphetamine	3.258	857078	457.4	40.6	263.7	313815	113.647 ng/ml
Metoprolol	4.349	152048	120464.5	98.5	6597.1	775446	98.153 ng/ml

AM #28 Multi-Drug Quant. Results

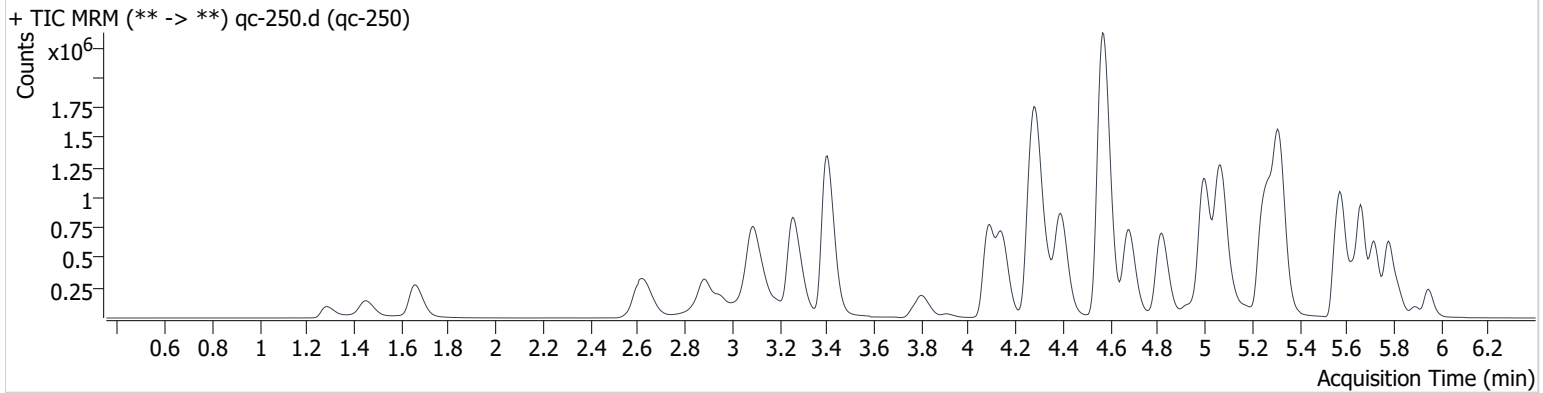
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.681	732398	820395.8	48.9	3015.1	281988	91.623 ng/ml
Mitragynine	5.271	81771	77956.1	38.6	3240.8	281988	107.143 ng/ml
Morphine	1.287	49236	13485.7	28.3	123.2	4188	102.910 ng/ml
Norbuprenorphine	5.024	490	172.6	128.4 High	452.8	3118	9.223 ng/ml
Nordiazepam	5.892	54689	12365.5	57.9	32113.1	18687	102.206 ng/ml
Norfentanyl	4.107	98054	11643.4	40.4	185.0	462053	10.066 ng/ml
Norhydrocodone	3.105	16865	740.0	41.7	1651.2	48642	98.642 ng/ml
Noroxycodone	2.956	162399	1325.8	45.5	480.2	59329	100.117 ng/ml
O-desmethyl-tramadol	3.405	1600750	76702.6	6.4	1027.3	865436	99.014 ng/ml
Oxazepam	5.758	13941	455.6	67.9	253.0	8690	98.021 ng/ml
Oxycodone	2.884	412249	544.7	33.6	3010.9	214932	104.444 ng/ml
Oxymorphone	1.450	184756	1228366.9	49.6	1739.6	75753	103.887 ng/ml
Phentermine	3.808	261981	520.5	5.1	227.1	302955	105.817 ng/ml
Promethazine	5.558	583400	49759.9	31.7	4202.2	269007	97.573 ng/ml
Quetiapine	5.581	458469	497844.5	60.8	206414.2	66728	98.380 ng/ml
Sertraline	5.783	142376	1251.2	96.9	45752.1	66777	96.657 ng/ml
Temazepam	5.819	124490	22491.0	28.6	353.5	57210	103.821 ng/ml
Tramadol	4.268	1520878	105260.1	3.4	290.8	816165	107.405 ng/ml
Trazodone	5.245	466272	182.4	79.8	102.0	225407	101.843 ng/ml
Venlafaxine	5.068	1121066	345065.0	36.9	4667.3	595754	95.577 ng/ml
Zolpidem	5.000	1255854	1496.7	29.4	1977.8	623718	100.680 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020 Data\am 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Calibration Last Update 1/22/2020 12:23:41 PM

Instrument	69679	Data File	qc-250.d
Type	QC	Sample	qc-250
Acq. Method	mdq p1 cda 121818.m	Operator	Britany Wylie
Sample Position	P2-C7	Comment	
Injection Volume	2		
Acq. Date-Time	1/15/2020 9:20:09 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.173	40509	5376.7	73.3	53933.4	44589	25.096 ng/ml
7-aminoclonazepam	4.297	339344	197.7	76.5	436.4	67778	238.861 ng/ml
a-hydroxyalprazolam	5.699	25908	849.7	60.6	609.1	5621	240.946 ng/ml
alpha-PVP	4.397	1719131	156977.7	53.6	92926.5	307804	242.595 ng/ml
Alprazolam	5.777	496484	3545.7	99.6	4104.0	59545	253.335 ng/ml
Amphetamine	3.096	1886570	1286.6	50.6	1558.1	164899	250.115 ng/ml
Benzoylcegonine	3.911	52971	62697.6	8.7	7318.5	8335	241.702 ng/ml
Buprenorphine	5.842	11565	8019.6	17.4	1207.4	15388	25.621 ng/ml
Bupropion	4.819	1519230	17951.0	60.8	1207.8	245015	255.000 ng/ml
Carisoprodol	5.728	371522	6232.2	62.2	11686.0	72365	251.405 ng/ml
Citalopram	5.251	835137	87296.6	40.3	1675.6	153634	247.218 ng/ml
Clonazepam	5.622	63357	79870.7	33.9	22350.9	5011	261.092 ng/ml
Cocaine	4.291	1425581	83363.3	46.1	369279.5	470247	242.813 ng/ml
Codeine	2.638	213260	668.7	98.5	1447.0	39381	258.045 ng/ml
Cyclobenzaprine	5.635	671894	155018.2	9.9	2572.0	114479	248.568 ng/ml
Dextromethorphan	5.295	511080	5948.0	77.2	17442.8	99814	246.829 ng/ml
Dextrorphan	4.146	562217	133382.6	216.4	91874.8	260072	251.624 ng/ml
Diazepam	5.947	315596	2433.2	85.6	2669.8	60195	254.244 ng/ml
Dihydrocodeine	2.606	575729	1968.2	71.6	1646.9	152295	250.443 ng/ml
Diphenhydramine	5.321	2448259	86834.0	34.4	9731.8	543543	245.100 ng/ml
Doxylamine	4.573	4436628	146656.7	93.9	16256.9	774087	251.858 ng/ml
EDDP	5.284	305739	238315.4	243.4	270712.4	145739	249.696 ng/ml
Fentanyl	5.138	88800	267.0	65.2	2708.2	184302	25.585 ng/ml
Fluoxetine	5.710	751109	7505.8	8.2	8224.6	123986	256.802 ng/ml
Hydrocodone	3.063	612433	723.4	43.1	10842.6	154109	267.083 ng/ml
Hydromorphone	1.663	608766	16974.3	79.2	2462.8	102015	243.127 ng/ml
Ketamine	4.087	1455026	141928.8	34.7	6553.2	294862	253.933 ng/ml
Lamotrigine	4.324	124813	2205.0	89.2	2132.7	99814	213.571 ng/ml
Lorazepam	5.750	22577	1077.1	61.9	625.8	59545	242.324 ng/ml
Meprobamate	4.932	240944	283599.0	29.7	7292.7	51091	251.837 ng/ml
Methadone	5.664	1238299	132930.8	57.4	70717.1	265638	247.166 ng/ml
Methamphetamine	3.258	1818778	3347.3	40.7	1781.4	285437	277.113 ng/ml
Metoprolol	4.349	334664	14853.2	97.2	6037.0	774087	217.475 ng/ml

AM #28 Multi-Drug Quant. Results

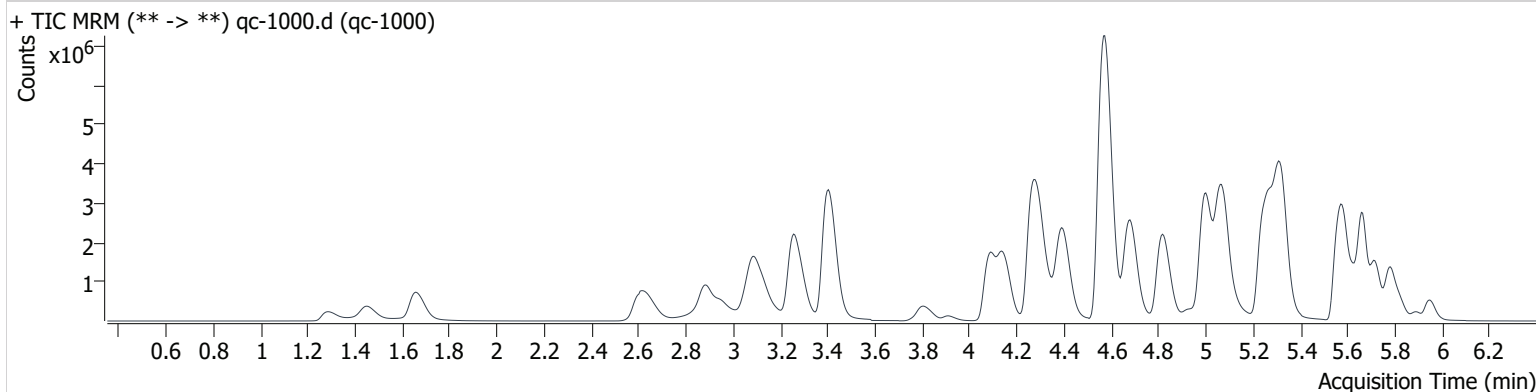
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.681	1743670	17613.1	49.2	10997.2	265638	230.471 ng/ml
Mitragynine	5.271	184337	542.6	37.7	100951.4	265638	258.197 ng/ml
Morphine	1.287	118352	645972.3	26.8	238179.2	4094	253.758 ng/ml
Norbuprenorphine	5.024	1159	734.9	112.6	1085.6	2709	23.826 ng/ml
Nordiazepam	5.892	125694	83569.6	58.1	19071.9	17594	249.812 ng/ml
Norfentanyl	4.107	227103	2704.9	40.4	3134.7	424490	25.438 ng/ml
Norhydrocodone	3.105	49107	1982.2	41.4	315.2	48490	284.696 ng/ml
Noroxycodone	2.952	374048	2233.3	46.9	2347.6	54753	250.161 ng/ml
O-desmethyl-tramadol	3.407	3942068	779.9	6.4	1296.2	840027	250.669 ng/ml
Oxazepam	5.758	29425	446.4	70.8	1224.0	7415	246.337 ng/ml
Oxycodone	2.884	1021419	13913.1	33.3	622.1	212548	262.744 ng/ml
Oxymorphone	1.450	437290	1973846.7	50.1	874749.8	72756	257.885 ng/ml
Phentermine	3.808	580071	2398.1	5.1	826.9	278971	255.959 ng/ml
Promethazine	5.558	1332586	1359531.8	31.9	1678.4	243505	245.754 ng/ml
Quetiapine	5.580	1095217	17146.6	60.9	13378.7	60043	261.367 ng/ml
Sertraline	5.782	292880	10978.9	94.9	196418.6	53829	247.082 ng/ml
Temazepam	5.819	292421	5047.3	29.2	421.2	53285	262.145 ng/ml
Tramadol	4.268	3561417	639775.2	3.4	267.4	797214	258.959 ng/ml
Trazodone	5.245	1088500	389470.6	79.7	712.0	217077	248.258 ng/ml
Venlafaxine	5.068	2770285	2934.8	36.6	36076.8	576791	243.144 ng/ml
Zolpidem	5.000	3135979	150560.4	28.7	183276.4	613760	256.073 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020 Data\am 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Calibration Last Update 1/22/2020 12:23:41 PM

Instrument 69679 **Data File** qc-1000.d
Type QC **Sample** qc-1000
Acq. Method mdq p1 cda 121818.m **Operator** Brittany Wylie
Sample Position P2-D7 **Comment**
Injection Volume 2
Acq. Date-Time 1/15/2020 9:30:58 PM
Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.173	131182	1074.2	72.6	218584.3	32709	110.816 ng/ml
7-aminoclonazepam	4.302	402908	7774.1	76.7	11401.9	23790	810.546 ng/ml
a-hydroxyalprazolam	5.699	72244	4119.4	61.4	1830.2	3922	963.986 ng/ml
alpha-PVP	4.398	5525933	4079.3	52.7	15833.4	239760	1000.441 ng/ml
Alprazolam	5.782	1276386	1394.6	98.9	5503.4	37688	1027.214 ng/ml
Amphetamine	3.096	4245289	18262.0	51.1	1477.9	120212	775.978 ng/ml ocr
Benzoylcegonine	3.911	230867	255592.6	8.2	20116.3	8374	1050.073 ng/ml
Buprenorphine	5.842	38393	32579.8	15.7	2365.8	9451	138.082 ng/ml ocr
Bupropion	4.823	5275375	5252.9	60.8	30543.9	221051	982.323 ng/ml
Carisoprodol	5.733	865482	129108.0	62.4	22050.4	42468	997.882 ng/ml
Citalopram	5.246	2109828	485.5	39.6	1004134.3	96426	995.713 ng/ml
Clonazepam	5.617	158095	414215.5	34.5	69246.9	3508	932.874 ng/ml
Cocaine	4.291	3684549	260423.3	45.2	173035.5	300901	981.154 ng/ml
Codeine	2.643	555889	61444.8	95.5	220255.7	26677	994.340 ng/ml
Cyclobenzaprine	5.630	2059855	4151.5	9.5	2741.2	87038	1002.918 ng/ml
Dextromethorphan	5.295	1390554	5956.8	75.6	1085720.5	67070	1000.101 ng/ml
Dextrorphan	4.146	1661144	499010.9	217.2	221246.4	187520	1031.469 ng/ml
Diazepam	5.947	840836	11930.9	86.1	9922.8	41612	981.588 ng/ml
Dihydrocodeine	2.601	1605037	1691.4	72.3	56286.6	130864	814.667 ng/ml
Diphenhydramine	5.327	7204158	30176.2	34.3	3211.7	392083	998.047 ng/ml
Doxylamine	4.573	15076016	6261.3	94.5	2280.7	671802	986.829 ng/ml
EDDP	5.284	1498182	1235238.9	245.6	128590.9	181148	984.571 ng/ml
Fentanyl	5.138	359526	3246.0	65.0	202703.9	177510	107.444 ng/ml
Fluoxetine	5.710	2058517	111415.0	8.3	161817.8	86653	1007.756 ng/ml
Hydrocodone	3.063	1895121	1234.0	43.6	1216.2	131398	971.589 ng/ml
Hydromorphone	1.658	1896717	69782.2	79.1	17173.1	81158	952.327 ng/ml
Ketamine	4.091	4256187	2431.9	34.4	3293.7	232748	942.737 ng/ml
Lamotrigine	4.324	237137	3479.8	88.0	10093.9	67070	600.985 ng/ml NE
Lorazepam	5.750	61212	2827.0	63.5	364.4	37688	1038.836 ng/ml
Meprobamate	4.932	690737	643094.7	30.1	66229.2	40140	921.818 ng/ml
Methadone	5.664	4348611	101036.0	56.2	1964.2	228612	1009.036 ng/ml
Methamphetamine	3.258	5162838	1836.9	39.8	7921.1	239325	959.599 ng/ml
Metoprolol	4.349	715100	598327.7	97.7	6226.8	671802	536.729 ng/ml ocr

AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.681	6515249	666561.4	48.6	12019.1	228612	998.254 ng/ml
Mitragynine	5.265	496308	875.5	39.5	961.1	228612	810.508 ng/ml ocr
Morphine	1.287	332730	976801.5	27.3	324034.3	3159	925.870 ng/ml
Norbuprenorphine	5.024	2980	236.6	100.4	495.3	1671	96.875 ng/ml NE
Nordiazepam	5.897	334634	46530.5	56.0	4439.9	11800	992.314 ng/ml
Norfentanyl	4.107	527177	56673.4	40.6	11330.9	261105	96.109 ng/ml
Norhydrocodone	3.110	154870	412.5	41.9	531.4	34076	1271.424 ng/ml ocr
Noroxycodone	2.952	1038456	1245.2	49.0	992.4	40637	936.315 ng/ml
O-desmethyl-tramadol	3.405	12310598	604955.6	6.2	42558.6	636773	1031.577 ng/ml
Oxazepam	5.752	78043	3046.1	69.9	1315.4	4826	1011.838 ng/ml
Oxycodone	2.879	3406004	23346.9	33.1	37650.5	183416	1017.319 ng/ml
Oxymorphone	1.450	1324474	14541955.9	49.5	1547987.1	59037	966.081 ng/ml
Phentermine	3.808	1526625	1953.8	5.0	2415.3	220990	852.881 ng/ml
Promethazine	5.558	4547860	5659189.4	31.4	13739.1	204472	997.893 ng/ml
Quetiapine	5.586	3472441	343065.1	60.7	2144273.8	48433	1027.639 ng/ml
Sertraline	5.783	646899	238305.9	95.6	520445.4	28750	1022.684 ng/ml
Temazepam	5.824	834296	31800.1	29.3	4420.3	37550	1061.944 ng/ml
Tramadol	4.263	9651268	419510.4	3.4	16553.1	566630	990.305 ng/ml
Trazodone	5.240	3546622	126614.0	80.9	689.7	253017	695.741 ng/ml ocr
Venlafaxine	5.068	8839869	56030.9	36.3	84221.1	444334	1005.523 ng/ml
Zolpidem	5.002	10126627	787.3	28.2	284969.7	519883	977.299 ng/ml

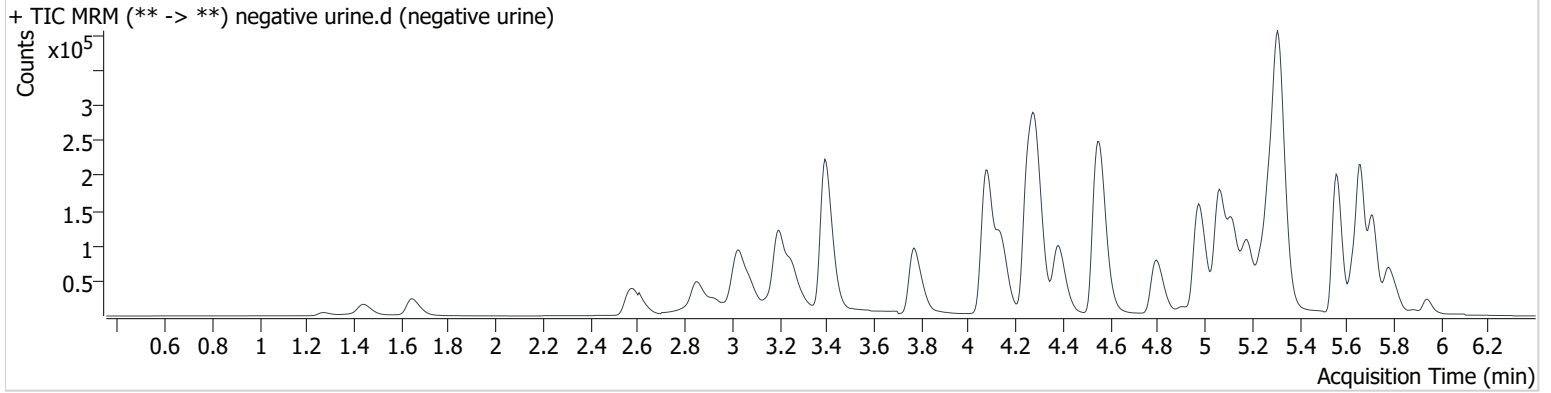
OCR= Outside curve range

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020 Data\am 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Calibration Last Update 1/16/2020 9:44:29 PM

Instrument	69679	Data File	negative urine.d
Type	Sample	Sample	negative urine
Acq. Method	mdq p1 cda 121818.m	Operator	Britany Wylie
Sample Position	P2-C9	Comment	
Injection Volume	2		
Acq. Date-Time	1/16/2020 3:04:45 AM		
Sample Info.			

Sample Chromatogram

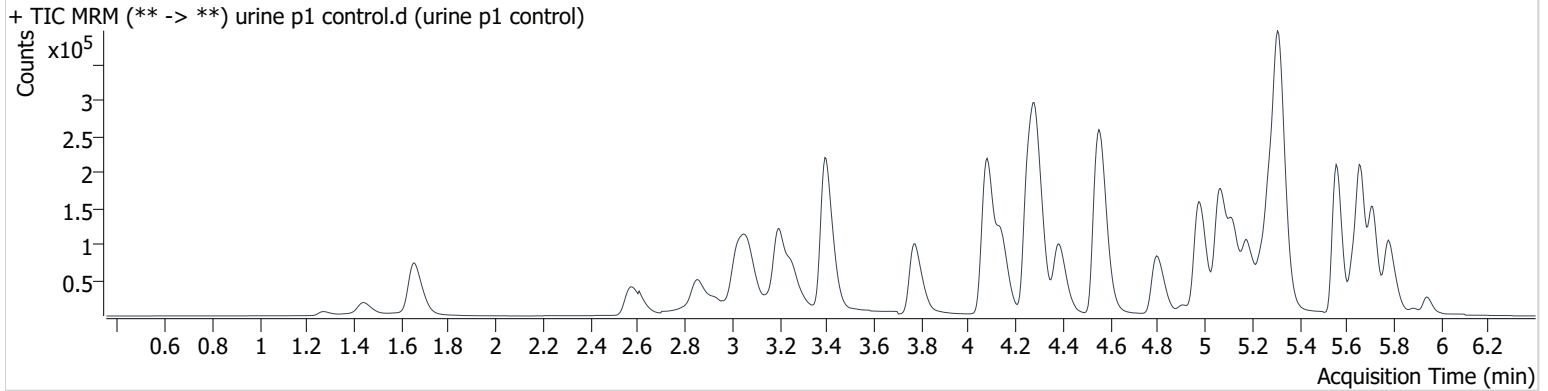


AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020 Data\am 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Calibration Last Update 1/16/2020 9:44:29 PM

Instrument	69679	Data File	urine p1 control.d
Type	Sample	Sample	urine p1 control
Acq. Method	mdq p1 cda 121818.m	Operator	Britany Wylie
Sample Position	P2-D9	Comment	
Injection Volume	2		
Acq. Date-Time	1/16/2020 3:26:17 AM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Hydrocodone	3.063	122388	2526.6	43.9	1896.3	146766	55.359 ng/ml
Hydromorphone	1.658	117819	3384.5	80.4	8155.0	98078	48.903 ng/ml
Methamphetamine	3.264	96541	144.5	39.3	60.0	451642	0.619 ng/ml<5
Sertraline	5.777	37296	5952.1	91.9	48418.9	113165	14.708 ng/ml

BW

Toxicology AM method 25 blood external prep information

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 100 ul working solution (52020) in 9900 ul neg blood

ppd 5/20/19, exp 3/1/20 lot 52019 neg blood lot 19A207P3 by BAW

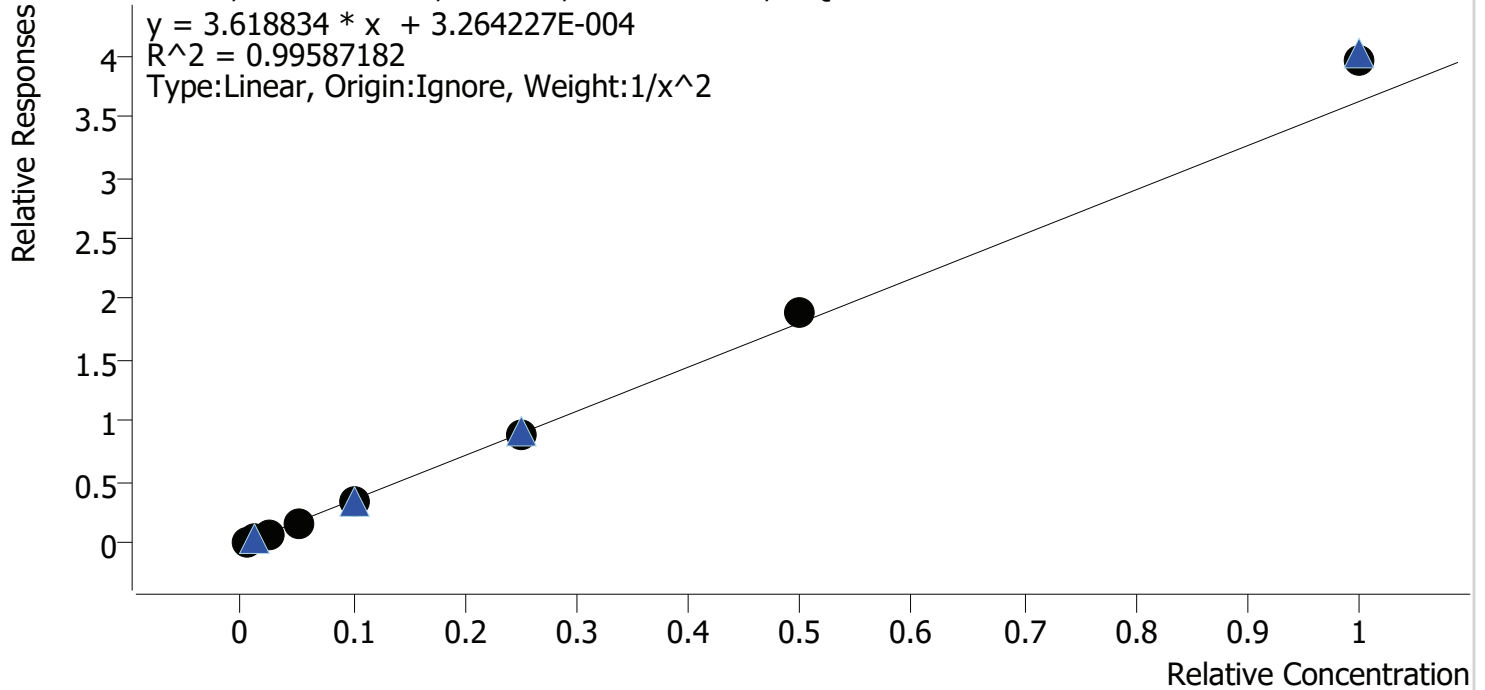
Concentration 100ng/ml hydrocodone, nortriptyline, sertraline, hydromorphone

Compound Calibration Report



Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 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

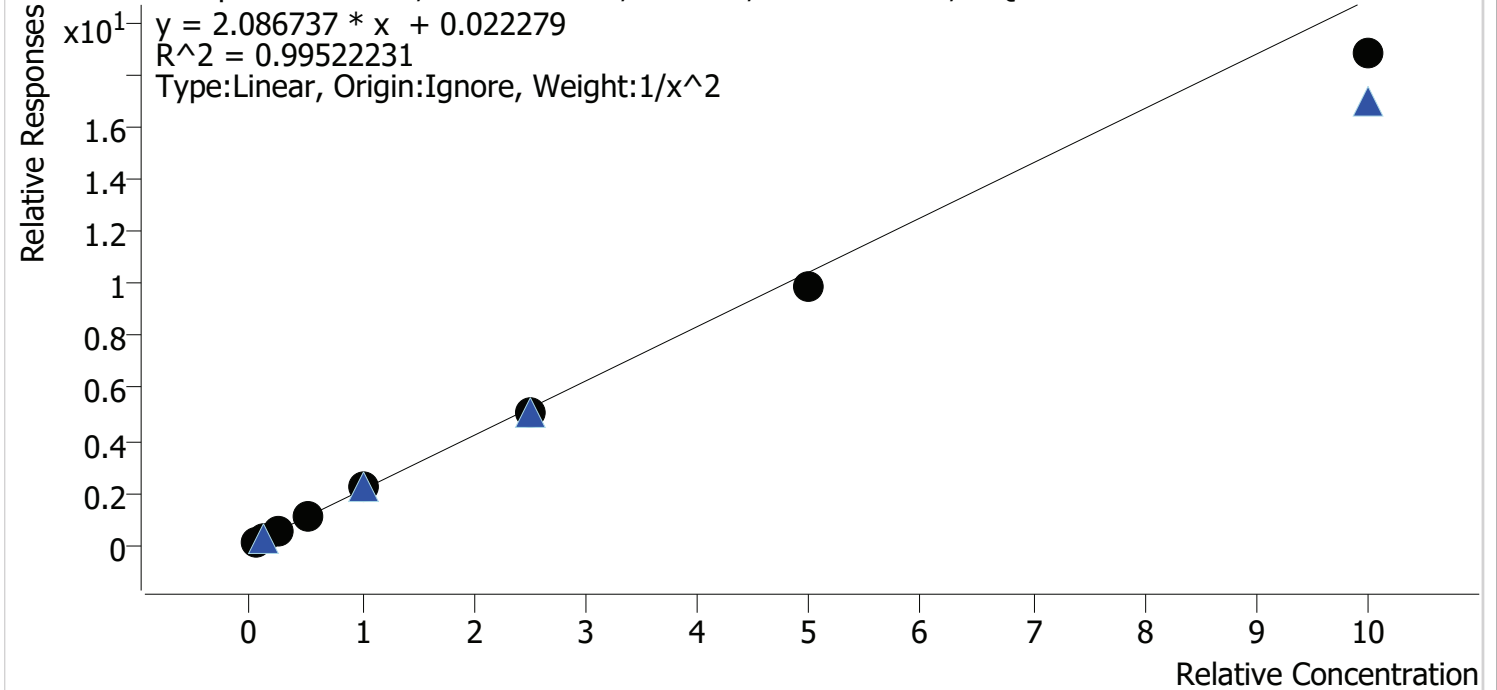


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	0.5	0.5	104.7
cal 2	2	✓	1.0	0.9	93.6
cal 3	3	✓	2.5	2.4	94.1
cal 4	4	✓	5.0	4.8	96.3
cal 5	5	✓	10.0	9.9	98.8
cal 6	6	✓	25.0	24.6	98.5
cal 7	7	✓	50.0	52.5	105.0
cal 8	8	✓	100.0	108.9	108.9

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte 7-aminoclonazepam **Internal Standard** 7-Aminoclonazepam-D4

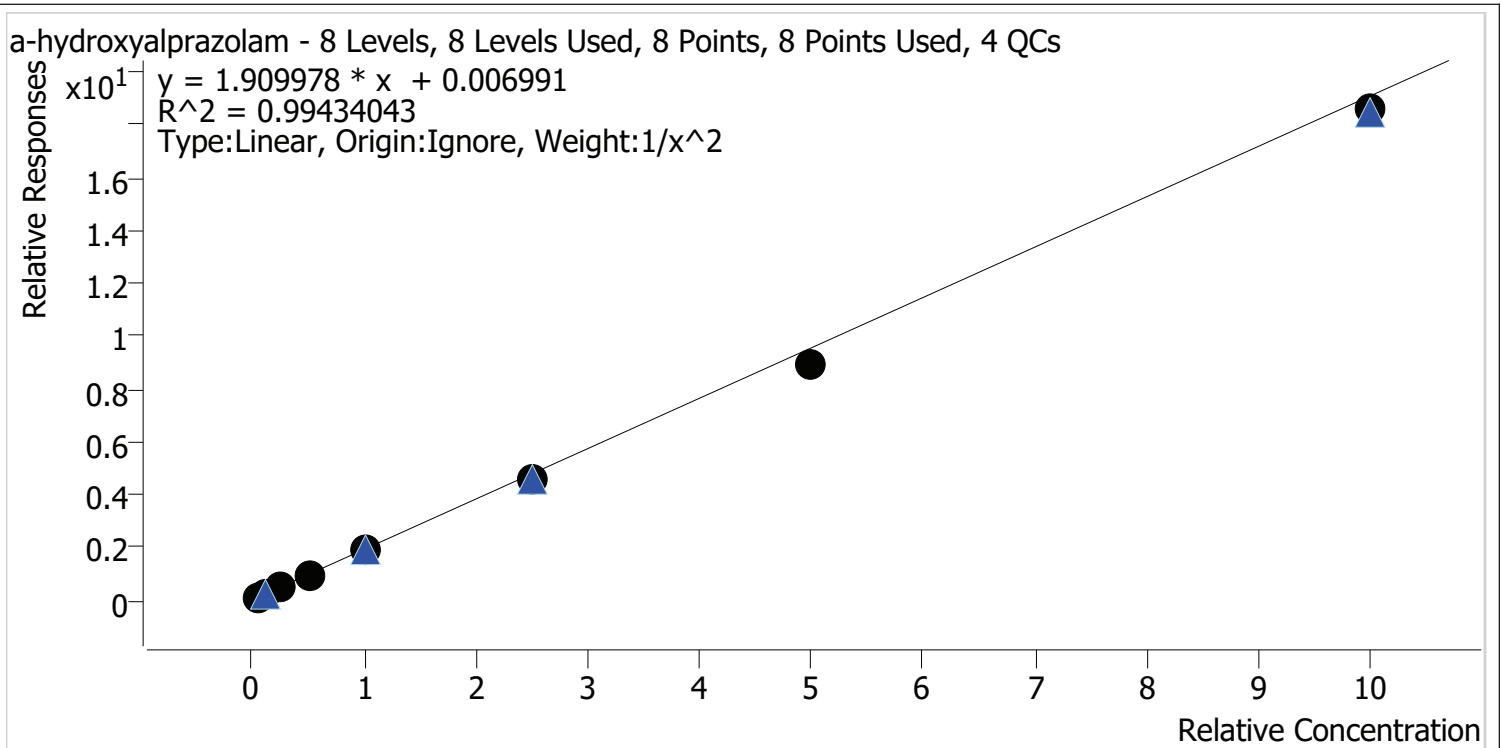
7-aminoclonazepam - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.8	96.9
cal 2	2	✓	10.0	10.2	102.4
cal 3	3	✓	25.0	26.2	104.9
cal 4	4	✓	50.0	54.0	108.0
cal 5	5	✓	100.0	104.7	104.7
cal 6	6	✓	250.0	245.0	98.0
cal 7	7	✓	500.0	474.7	94.9
cal 8	8	✓	1000.0	901.0	90.1

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte a-hydroxyalprazolam **Internal Standard** a-hydroxyalprazolam-D5

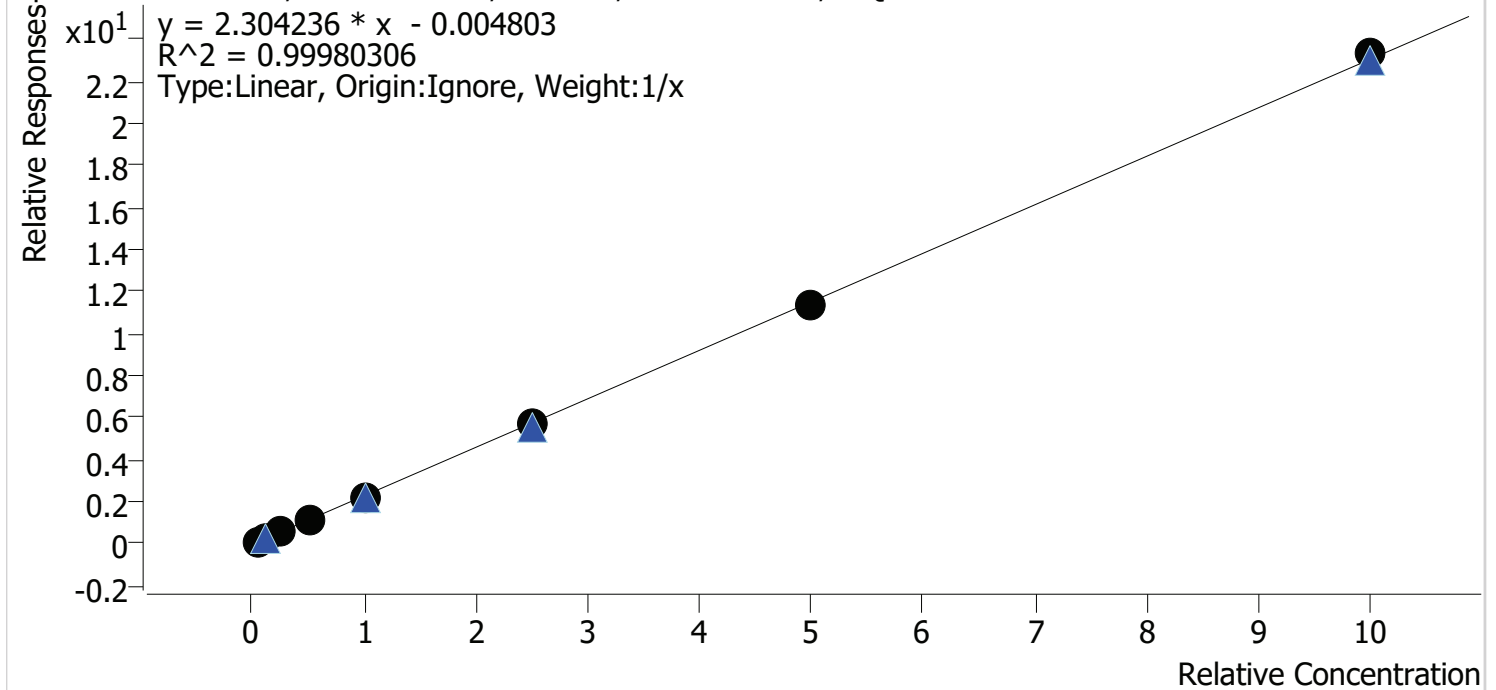


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.7	93.4
cal 2	2	✓	10.0	11.0	110.0
cal 3	3	✓	25.0	27.4	109.7
cal 4	4	✓	50.0	48.8	97.6
cal 5	5	✓	100.0	101.3	101.3
cal 6	6	✓	250.0	241.7	96.7
cal 7	7	✓	500.0	470.0	94.0
cal 8	8	✓	1000.0	973.6	97.4

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte alpha-PVP **Internal Standard** alpha-PVP-d8

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

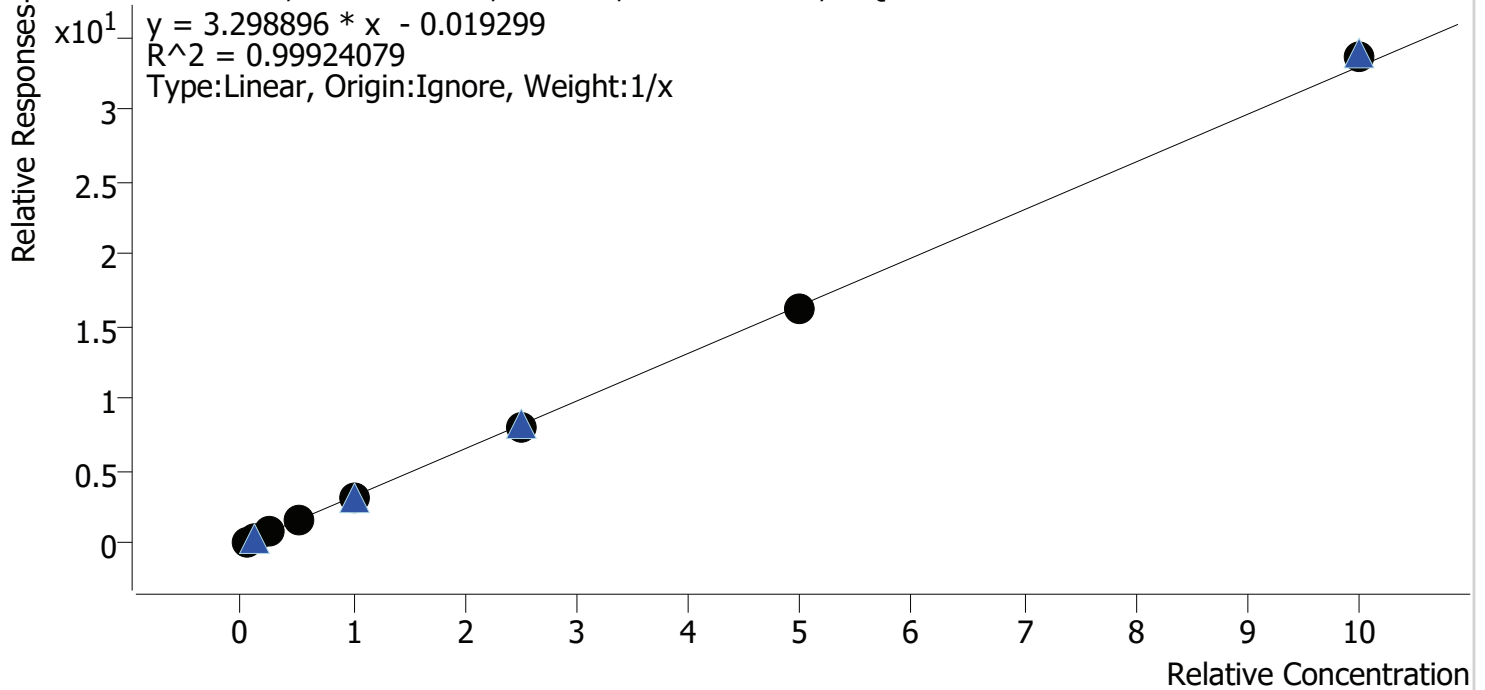


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.3	105.9
cal 2	2	✓	10.0	10.1	100.7
cal 3	3	✓	25.0	24.7	99.0
cal 4	4	✓	50.0	49.0	98.0
cal 5	5	✓	100.0	98.0	98.0
cal 6	6	✓	250.0	245.0	98.0
cal 7	7	✓	500.0	496.1	99.2
cal 8	8	✓	1000.0	1011.8	101.2

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte Alprazolam **Internal Standard** Alprazolam-D5

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

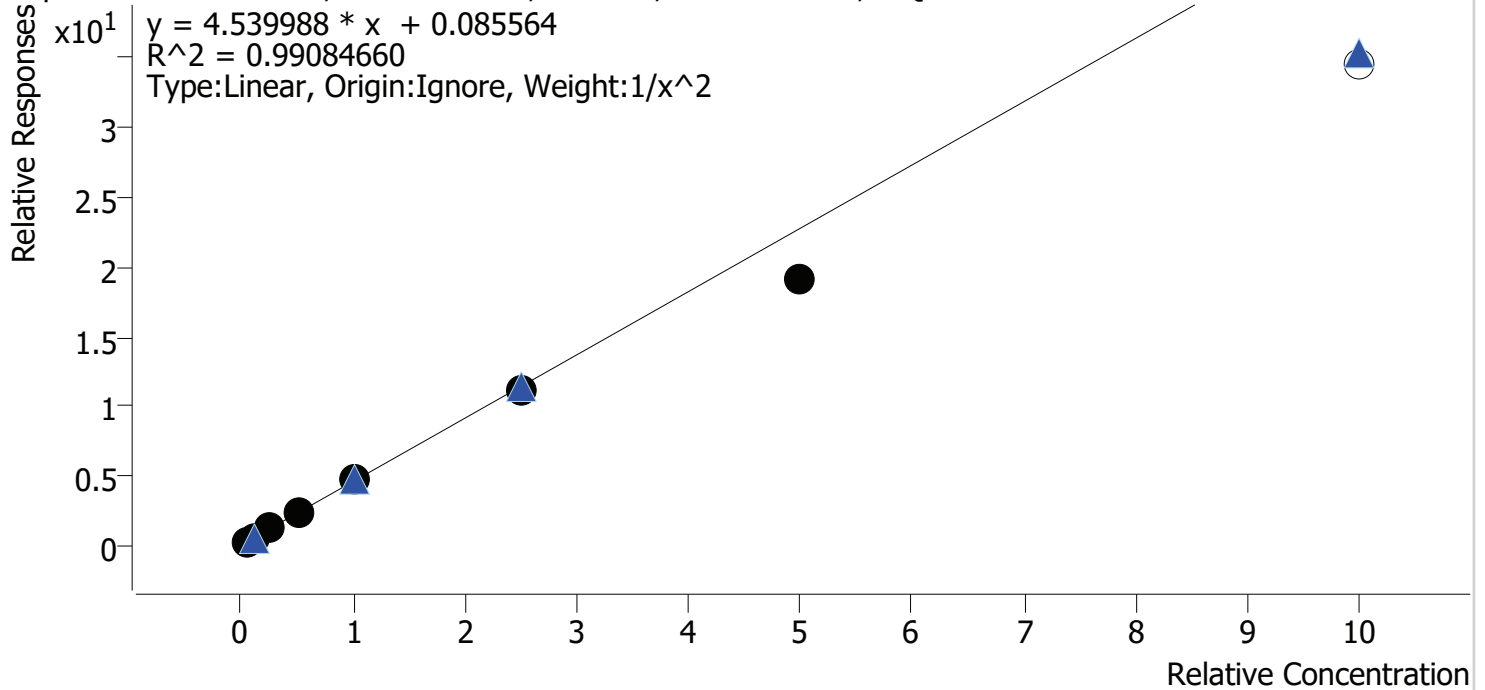


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.5	109.0
cal 2	2	✓	10.0	10.4	103.8
cal 3	3	✓	25.0	24.3	97.3
cal 4	4	✓	50.0	48.9	97.9
cal 5	5	✓	100.0	94.4	94.4
cal 6	6	✓	250.0	243.3	97.3
cal 7	7	✓	500.0	489.8	98.0
cal 8	8	✓	1000.0	1023.4	102.3

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\am 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte Amphetamine **Internal Standard** Amphetamine-D11

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

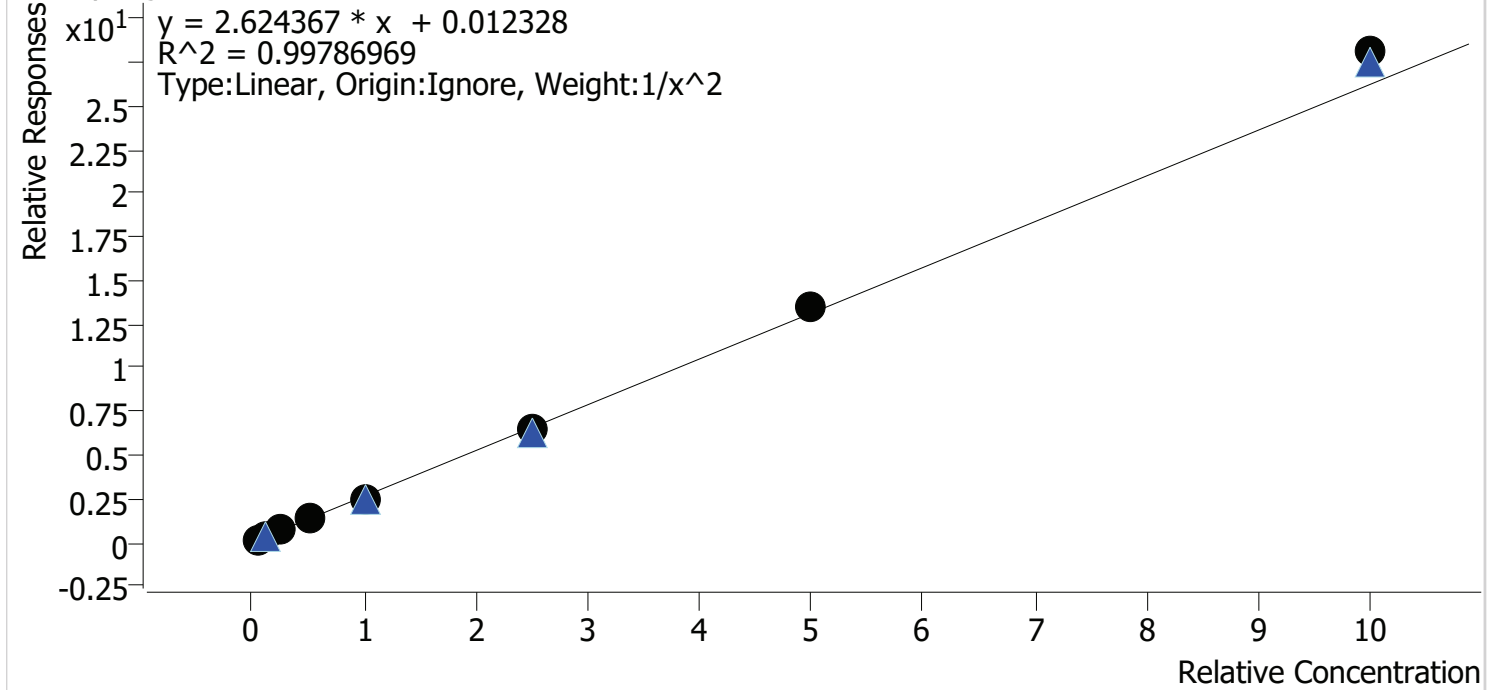


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.8	95.7
cal 2	2	✓	10.0	10.4	104.3
cal 3	3	✓	25.0	27.0	107.9
cal 4	4	✓	50.0	53.2	106.4
cal 5	5	✓	100.0	103.4	103.4
cal 6	6	✓	250.0	244.8	97.9
cal 7	7	✓	500.0	422.4	84.5
cal 8	8	×	1000.0	757.2	75.7

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte Benzoylecgonine **Internal Standard** Benzoylecgonine-d8

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

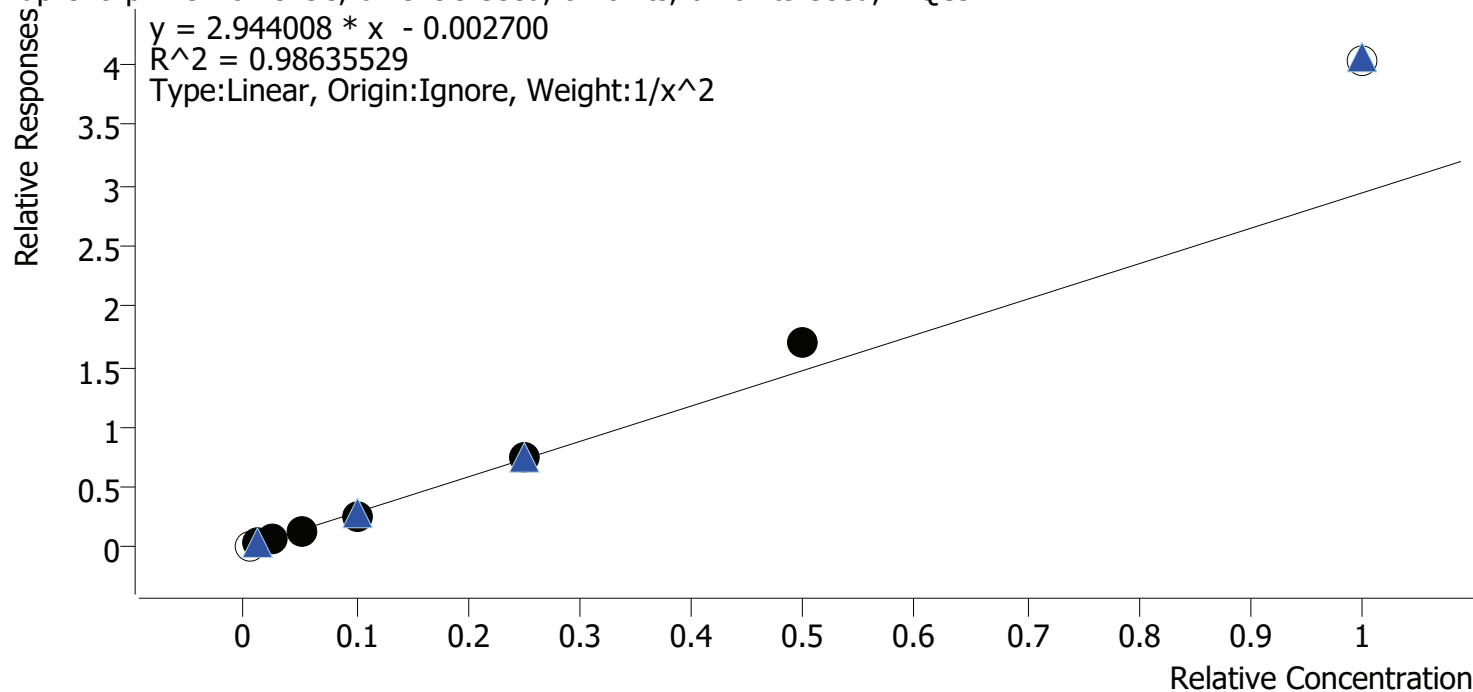


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.1	101.6
cal 2	2	✓	10.0	9.8	97.6
cal 3	3	✓	25.0	24.9	99.8
cal 4	4	✓	50.0	50.0	100.1
cal 5	5	✓	100.0	93.3	93.3
cal 6	6	✓	250.0	245.9	98.4
cal 7	7	✓	500.0	511.0	102.2
cal 8	8	✓	1000.0	1071.7	107.2

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\am 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte Buprenorphine **Internal Standard** Buprenorphine-D4

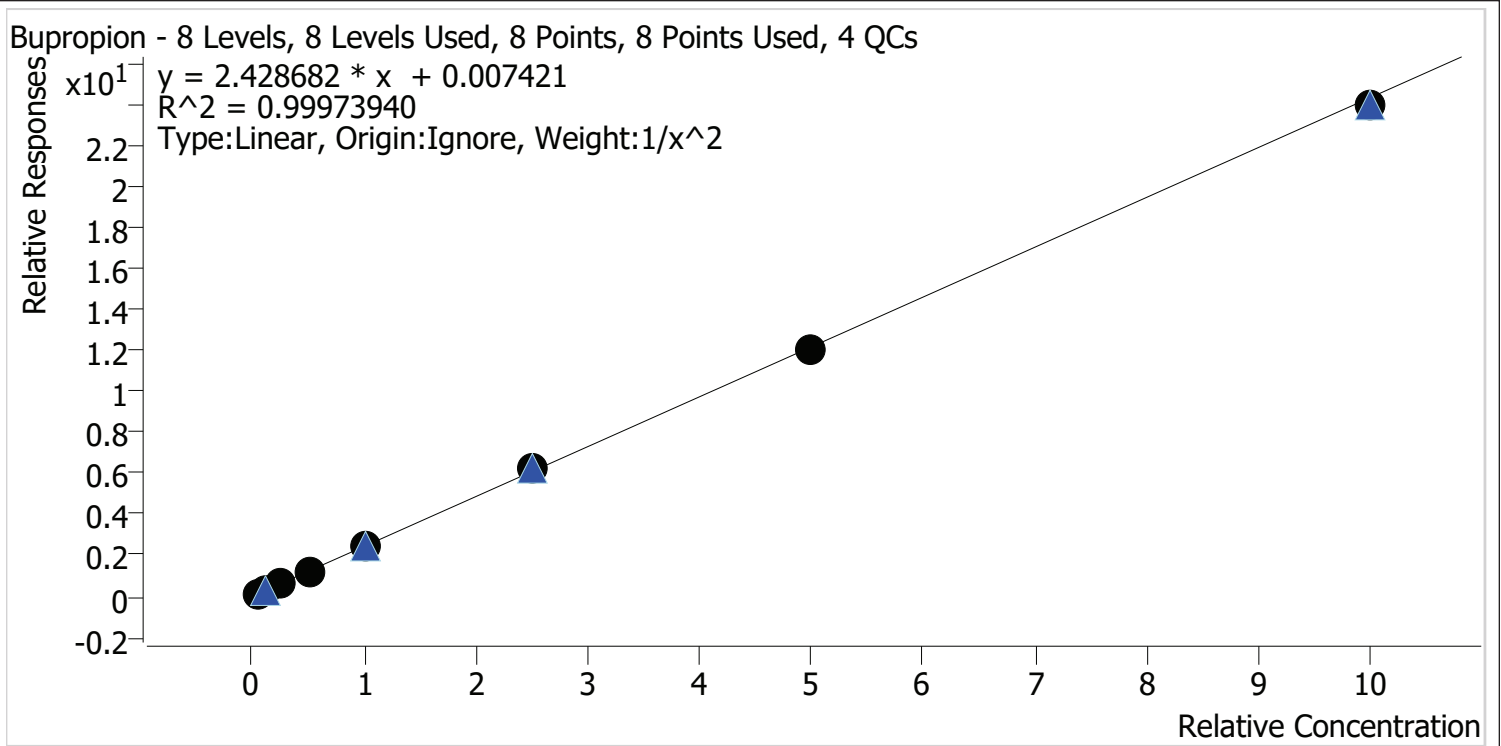
Buprenorphine - 8 Levels, 6 Levels Used, 8 Points, 6 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	×	0.5	0.7	130.0
cal 2	2	✓	1.0	1.1	105.2
cal 3	3	✓	2.5	2.3	91.8
cal 4	4	✓	5.0	4.6	92.2
cal 5	5	✓	10.0	9.2	92.2
cal 6	6	✓	25.0	25.7	102.7
cal 7	7	✓	50.0	58.0	115.9
cal 8	8	×	100.0	136.7	136.7

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte Bupropion **Internal Standard** Bupropion-D9

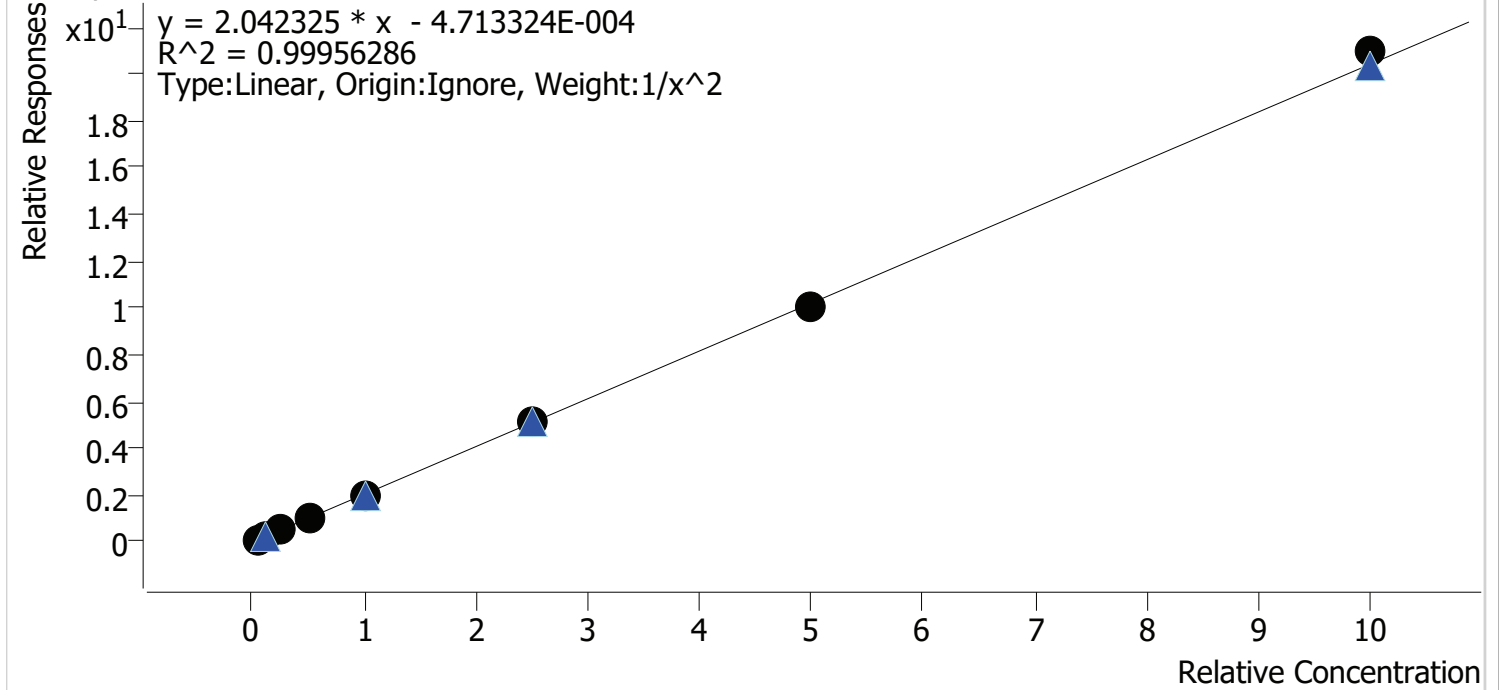


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	100.3
cal 2	2	✓	10.0	9.9	99.4
cal 3	3	✓	25.0	24.6	98.6
cal 4	4	✓	50.0	51.2	102.5
cal 5	5	✓	100.0	100.1	100.1
cal 6	6	✓	250.0	253.7	101.5
cal 7	7	✓	500.0	496.1	99.2
cal 8	8	✓	1000.0	984.1	98.4

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte Carisoprodol **Internal Standard** Carisoprodol-D7

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

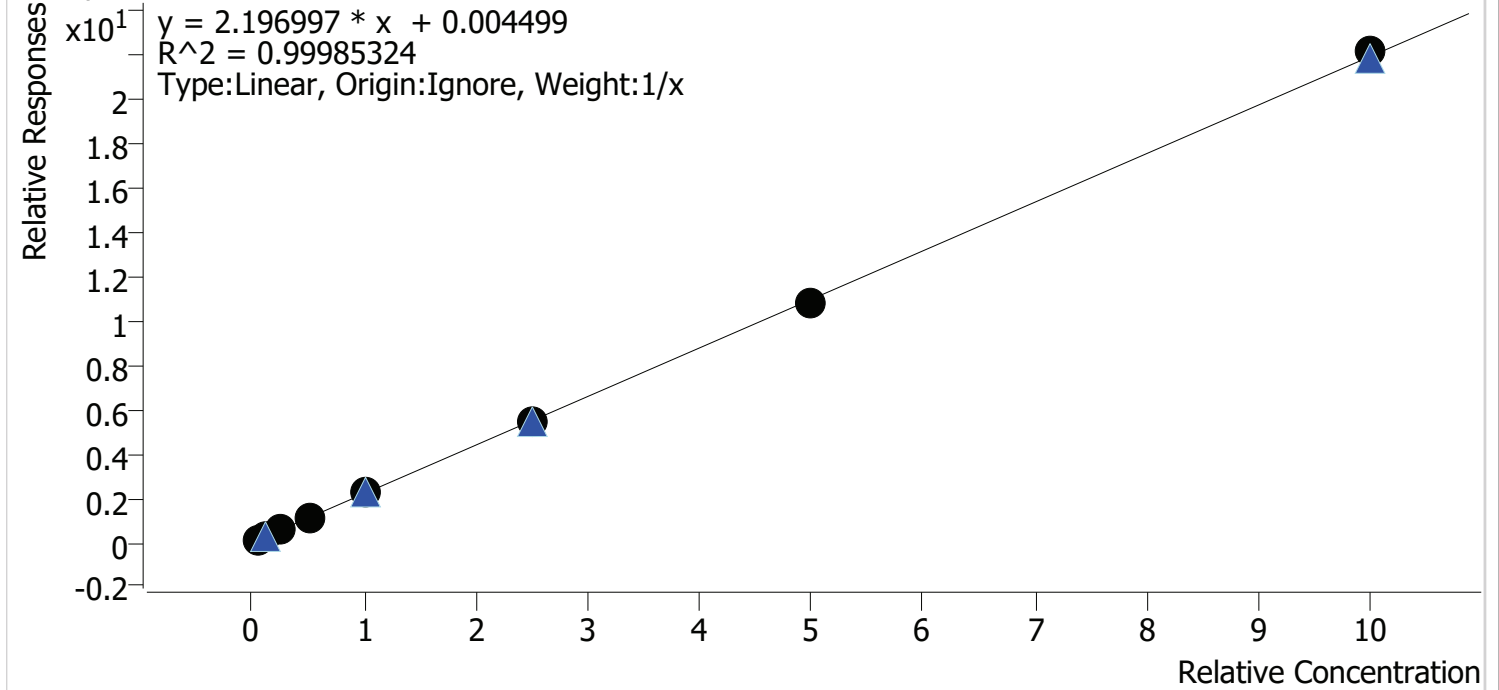


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.1	101.1
cal 2	2	✓	10.0	9.7	97.4
cal 3	3	✓	25.0	25.2	100.7
cal 4	4	✓	50.0	50.6	101.3
cal 5	5	✓	100.0	98.6	98.6
cal 6	6	✓	250.0	250.6	100.2
cal 7	7	✓	500.0	490.0	98.0
cal 8	8	✓	1000.0	1026.5	102.6

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte Citalopram **Internal Standard** Citalopram-D6

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



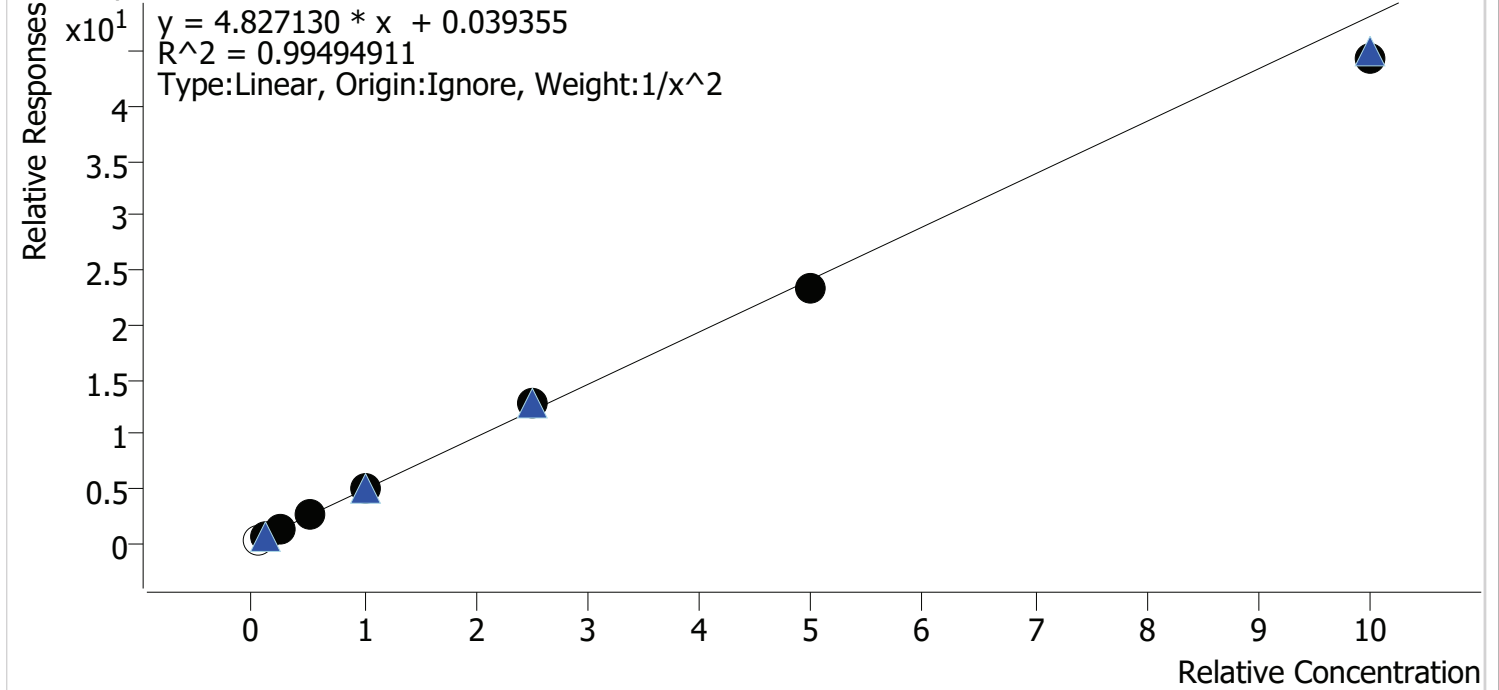
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.1	102.2
cal 2	2	✓	10.0	9.8	97.7
cal 3	3	✓	25.0	25.6	102.3
cal 4	4	✓	50.0	50.0	100.0
cal 5	5	✓	100.0	99.5	99.5
cal 6	6	✓	250.0	246.5	98.6
cal 7	7	✓	500.0	493.5	98.7
cal 8	8	✓	1000.0	1010.1	101.0

Compound Calibration Report



Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte Clonazepam **Internal Standard** Clonazepam-D4

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

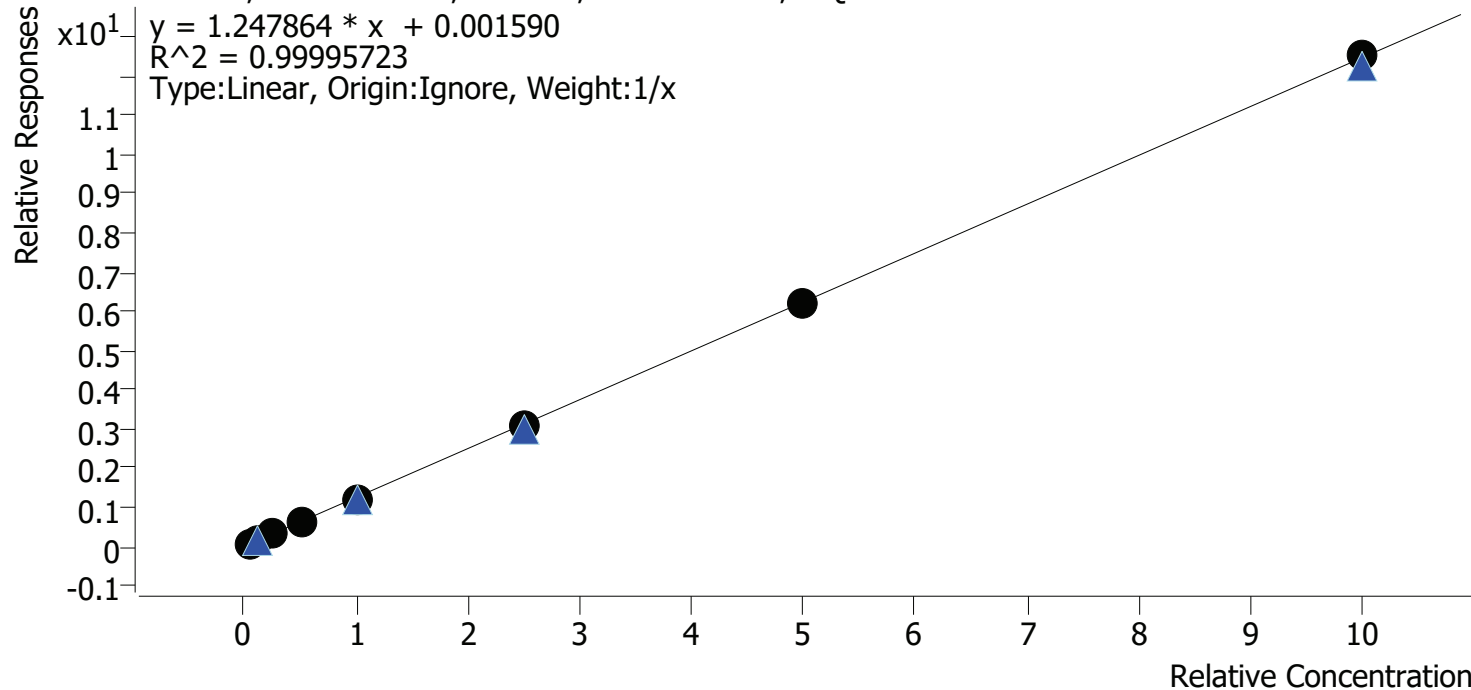


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	×	5.0	4.8	96.5
cal 2	2	✓	10.0	10.0	100.4
cal 3	3	✓	25.0	23.6	94.3
cal 4	4	✓	50.0	53.8	107.5
cal 5	5	✓	100.0	103.0	103.0
cal 6	6	✓	250.0	266.8	106.7
cal 7	7	✓	500.0	480.3	96.1
cal 8	8	✓	1000.0	919.9	92.0

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte Cocaine **Internal Standard** Cocaine-d3

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



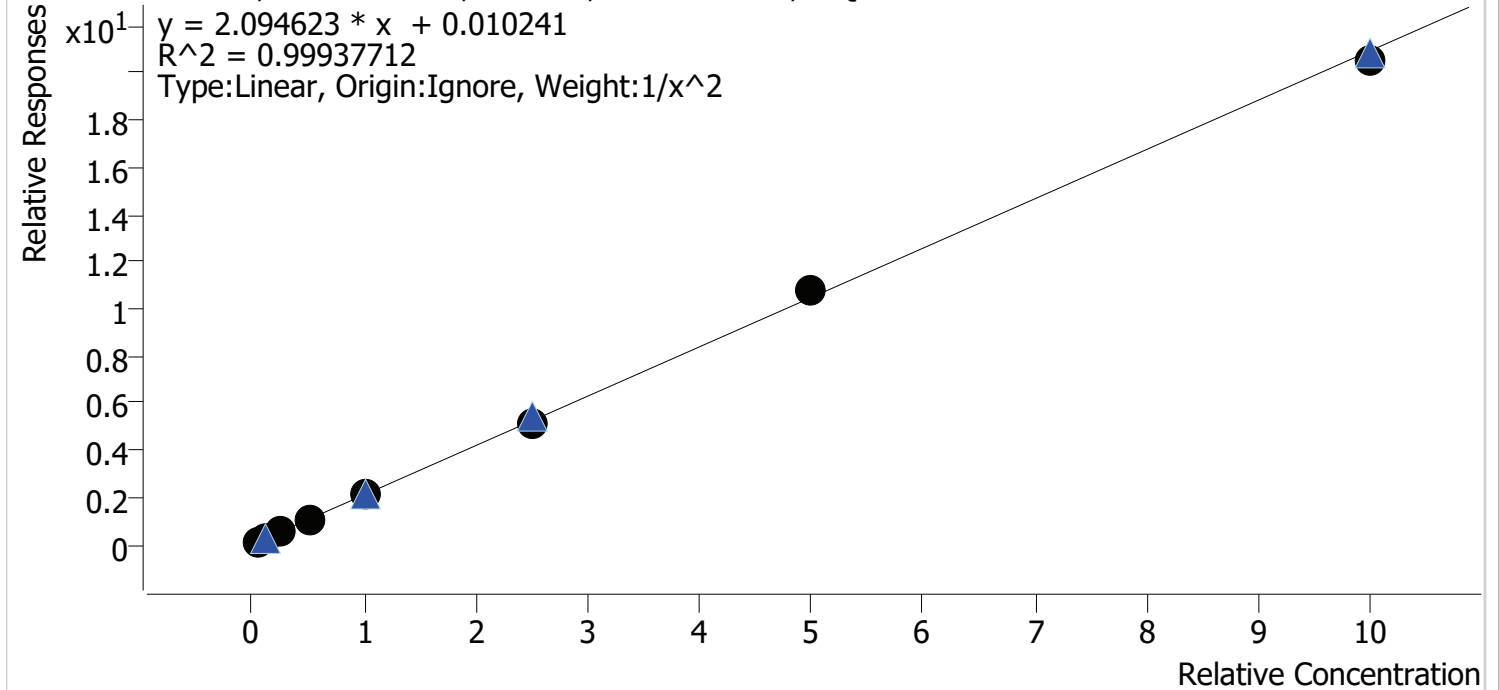
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.1	101.7
cal 2	2	✓	10.0	10.0	100.4
cal 3	3	✓	25.0	24.8	99.0
cal 4	4	✓	50.0	50.5	101.0
cal 5	5	✓	100.0	98.1	98.1
cal 6	6	✓	250.0	249.6	99.8
cal 7	7	✓	500.0	497.6	99.5
cal 8	8	✓	1000.0	1004.3	100.4

Compound Calibration Report



Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte Codeine **Internal Standard** Codeine-D6

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

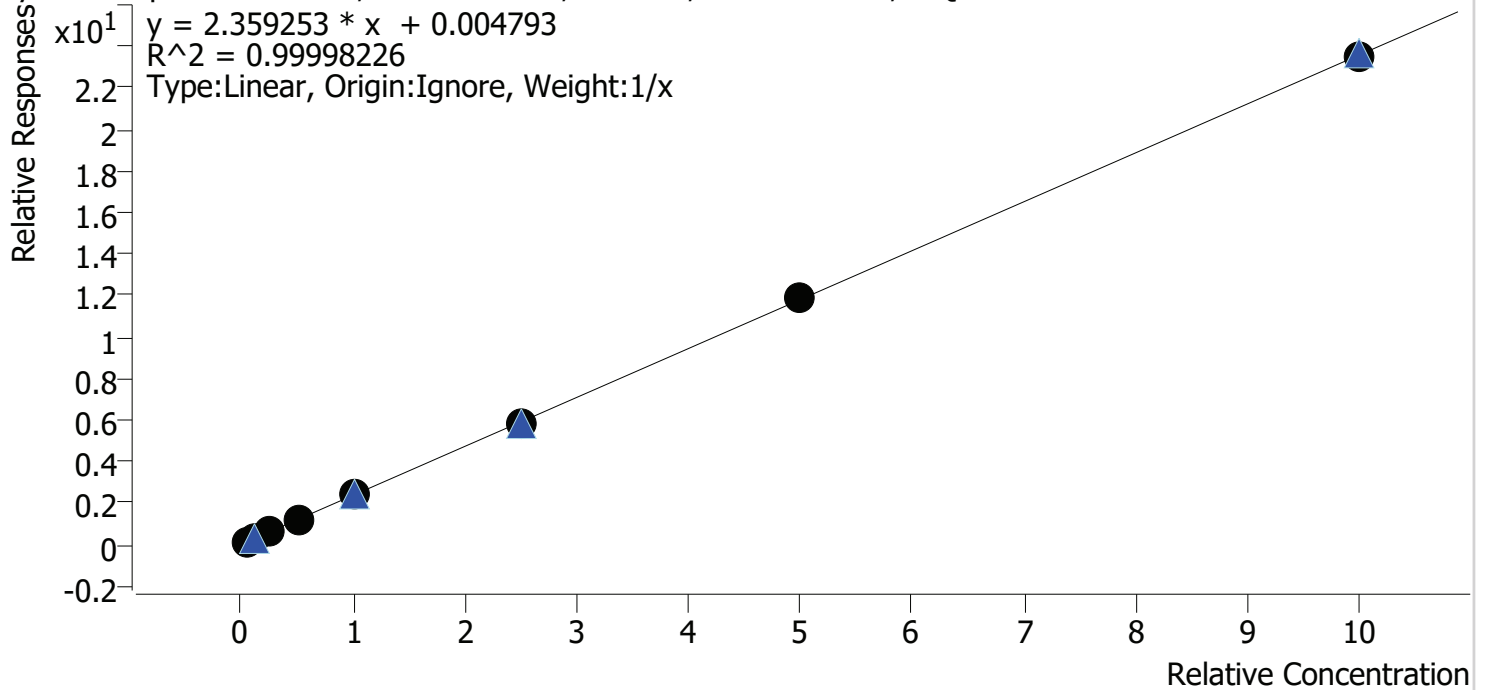


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	99.1
cal 2	2	✓	10.0	10.2	102.1
cal 3	3	✓	25.0	24.8	99.1
cal 4	4	✓	50.0	50.9	101.9
cal 5	5	✓	100.0	98.0	98.0
cal 6	6	✓	250.0	245.8	98.3
cal 7	7	✓	500.0	517.8	103.6
cal 8	8	✓	1000.0	980.5	98.0

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte Cyclobenzaprine **Internal Standard** Cyclobenzaprine-D3

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

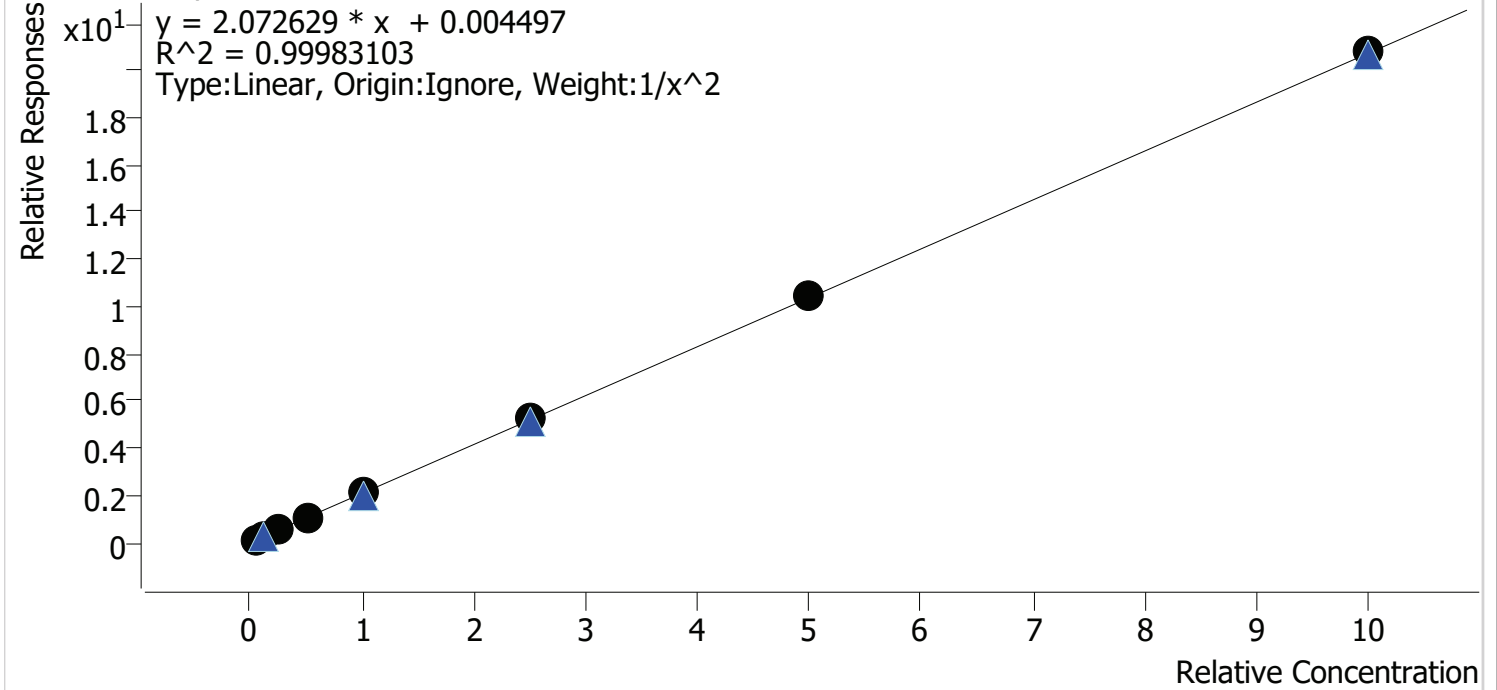


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	100.0
cal 2	2	✓	10.0	10.2	102.2
cal 3	3	✓	25.0	24.8	99.1
cal 4	4	✓	50.0	49.7	99.4
cal 5	5	✓	100.0	99.3	99.3
cal 6	6	✓	250.0	248.6	99.5
cal 7	7	✓	500.0	502.3	100.5
cal 8	8	✓	1000.0	1000.0	100.0

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte Dextromethorphan **Internal Standard** Dextromethorphan-D3

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

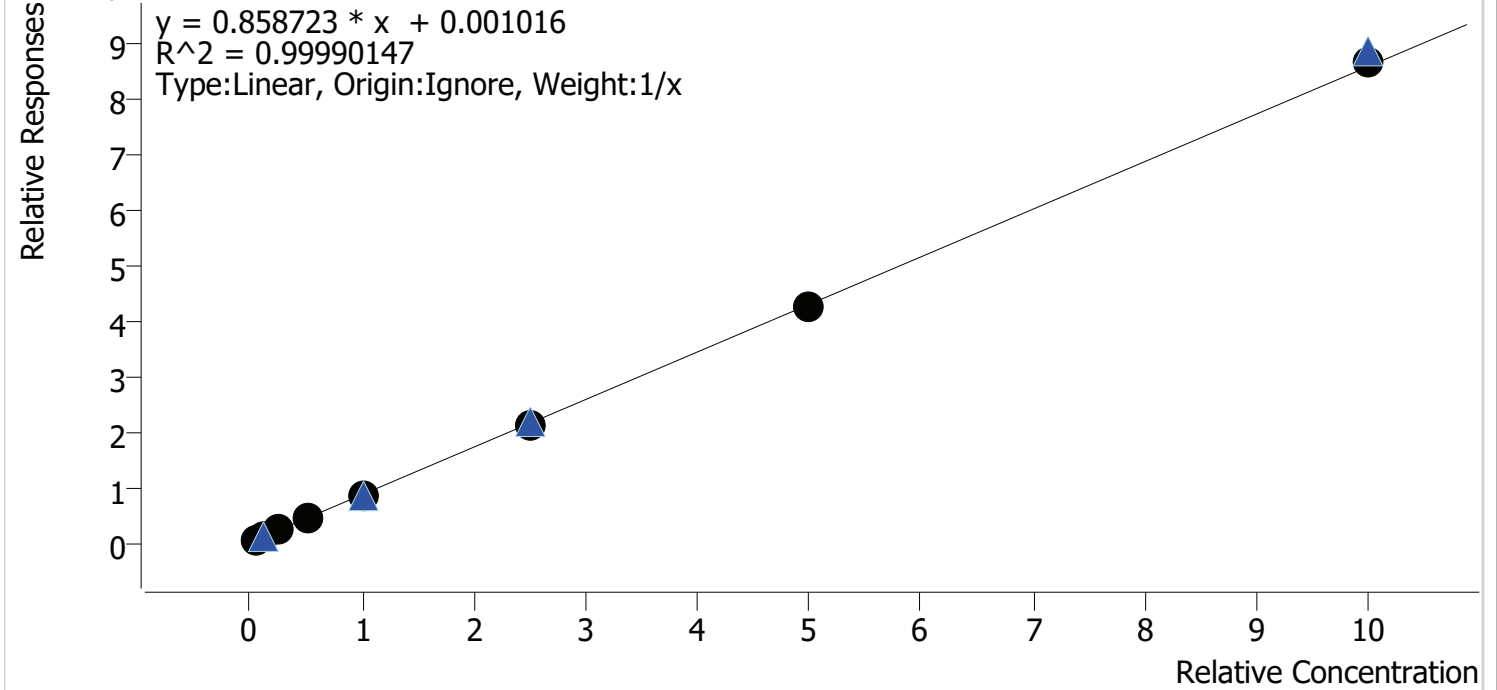


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.1	101.2
cal 2	2	✓	10.0	9.8	97.7
cal 3	3	✓	25.0	24.8	99.2
cal 4	4	✓	50.0	50.3	100.6
cal 5	5	✓	100.0	99.7	99.7
cal 6	6	✓	250.0	252.5	101.0
cal 7	7	✓	500.0	500.8	100.2
cal 8	8	✓	1000.0	1003.6	100.4

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte Dextrorphan **Internal Standard** Dextrorphan-D3

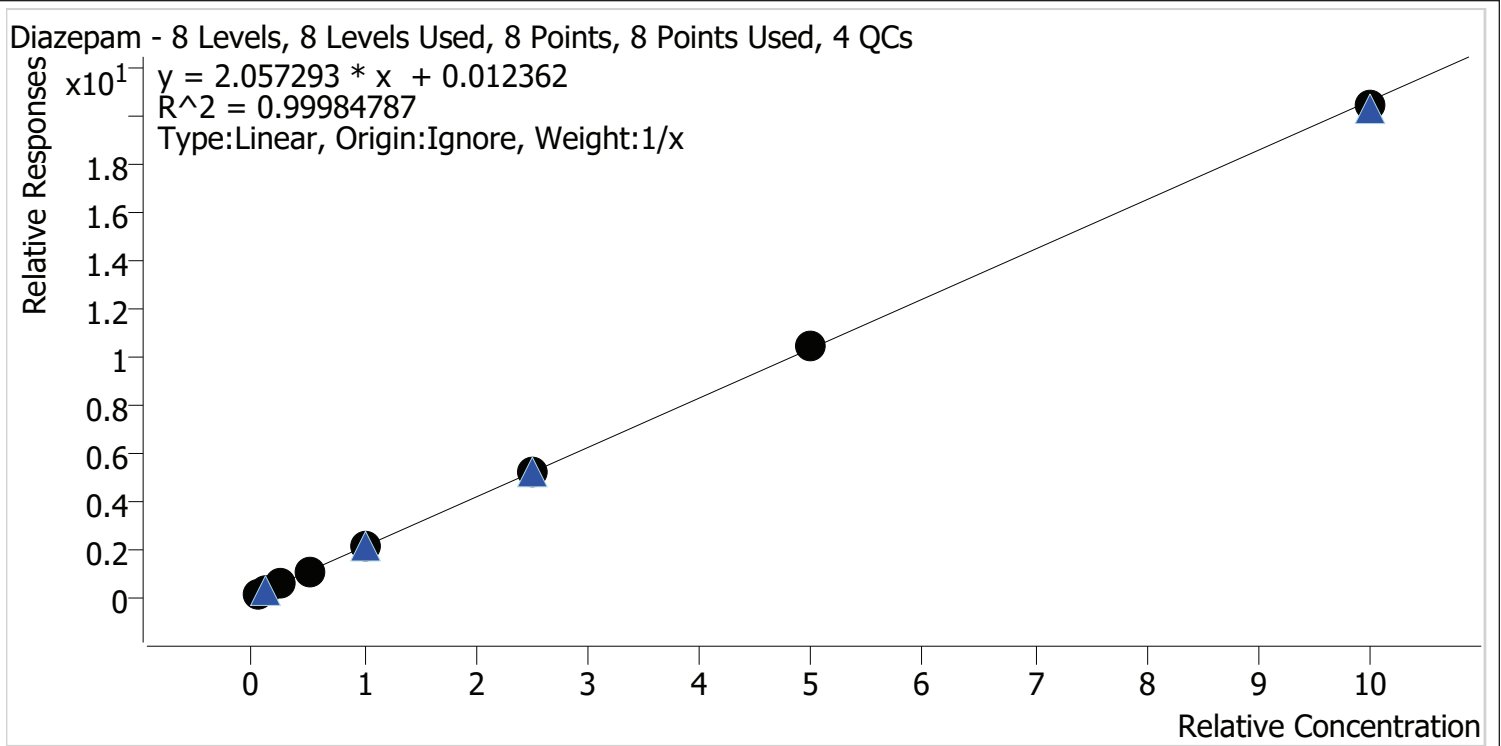
Dextrorphan - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.2	103.3
cal 2	2	✓	10.0	10.0	100.3
cal 3	3	✓	25.0	24.8	99.2
cal 4	4	✓	50.0	49.8	99.6
cal 5	5	✓	100.0	98.3	98.3
cal 6	6	✓	250.0	248.9	99.6
cal 7	7	✓	500.0	494.5	98.9
cal 8	8	✓	1000.0	1008.5	100.8

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte Diazepam **Internal Standard** Diazepam-D5

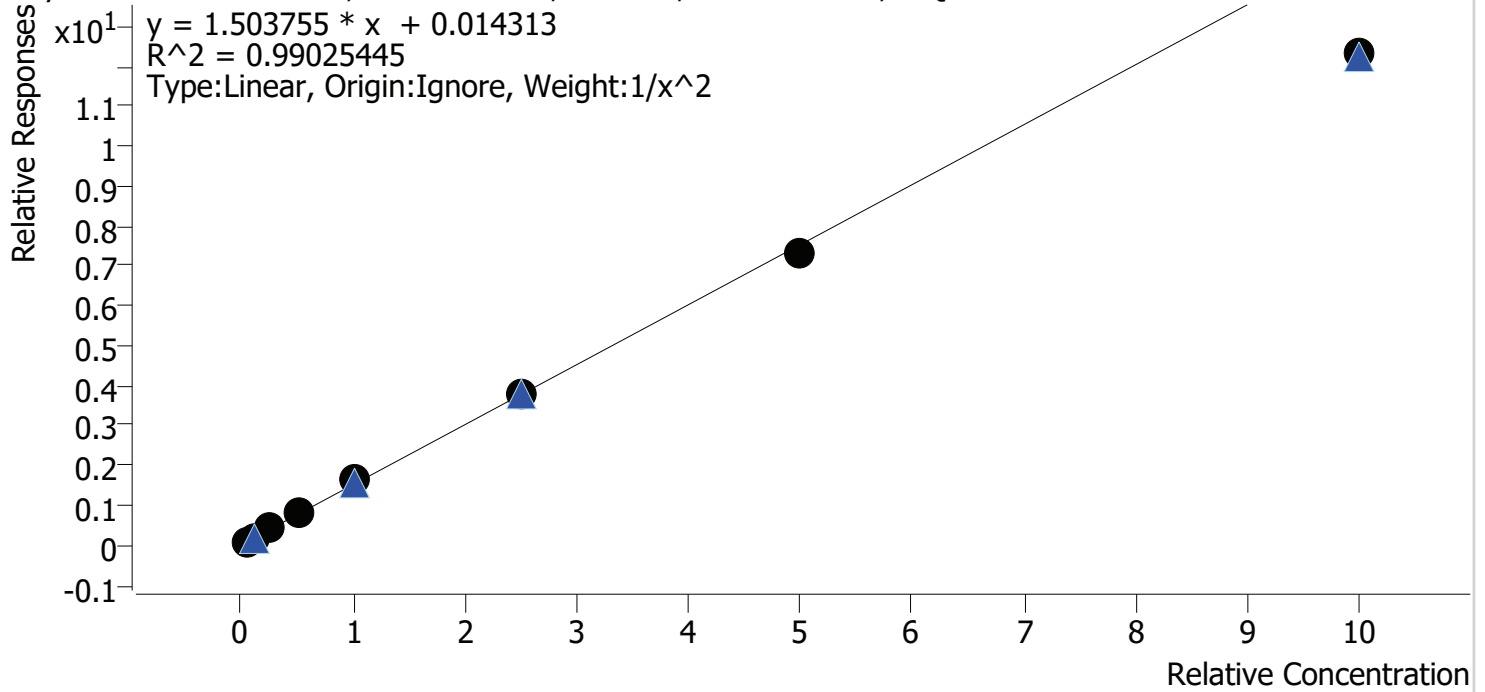


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	98.5
cal 2	2	✓	10.0	9.8	97.6
cal 3	3	✓	25.0	25.0	100.2
cal 4	4	✓	50.0	51.3	102.7
cal 5	5	✓	100.0	100.1	100.1
cal 6	6	✓	250.0	250.8	100.3
cal 7	7	✓	500.0	508.0	101.6
cal 8	8	✓	1000.0	990.1	99.0

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte Dihydrocodeine **Internal Standard** Dihydrocodeine-D6

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



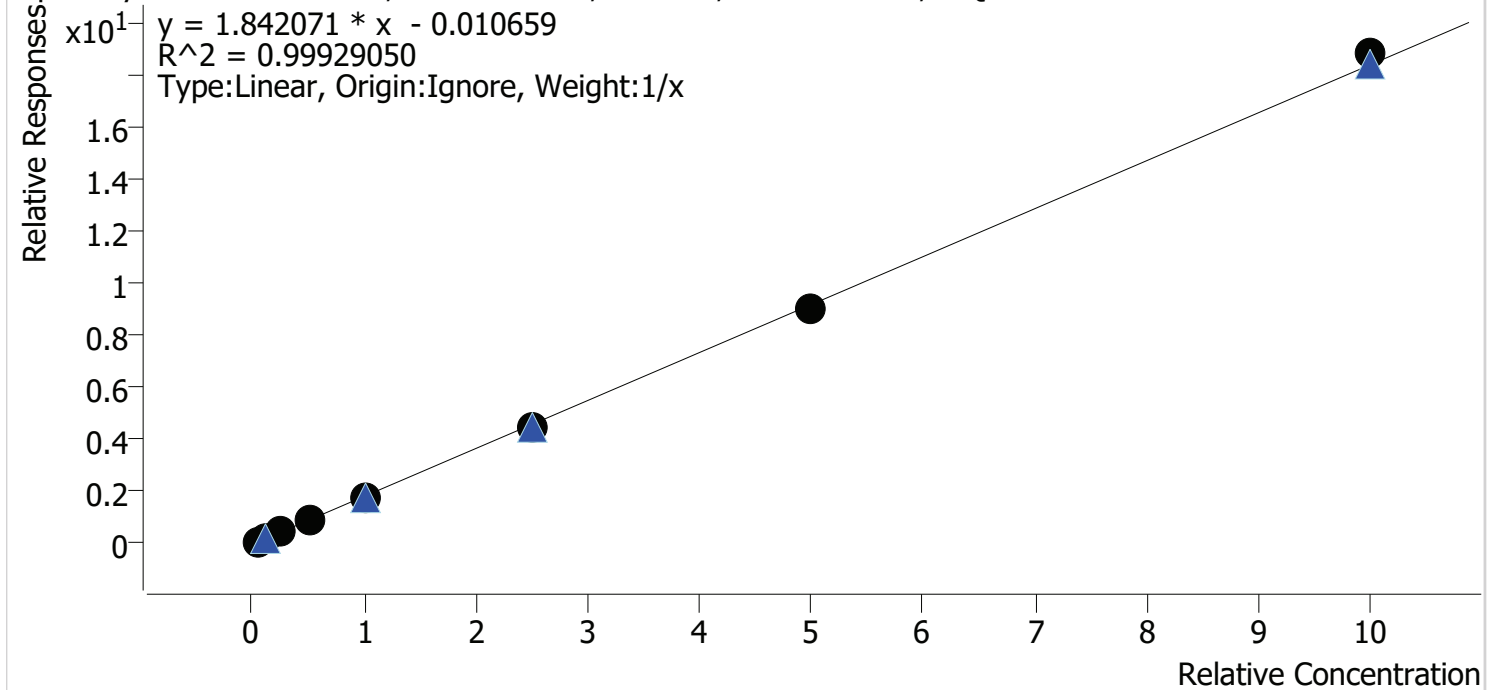
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.8	96.7
cal 2	2	✓	10.0	10.2	101.6
cal 3	3	✓	25.0	26.8	107.0
cal 4	4	✓	50.0	54.1	108.3
cal 5	5	✓	100.0	107.0	107.0
cal 6	6	✓	250.0	251.5	100.6
cal 7	7	✓	500.0	484.6	96.9
cal 8	8	✓	1000.0	818.5	81.9

Compound Calibration Report



Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte Diphenhydramine **Internal Standard** Diphenhydramine-D3

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

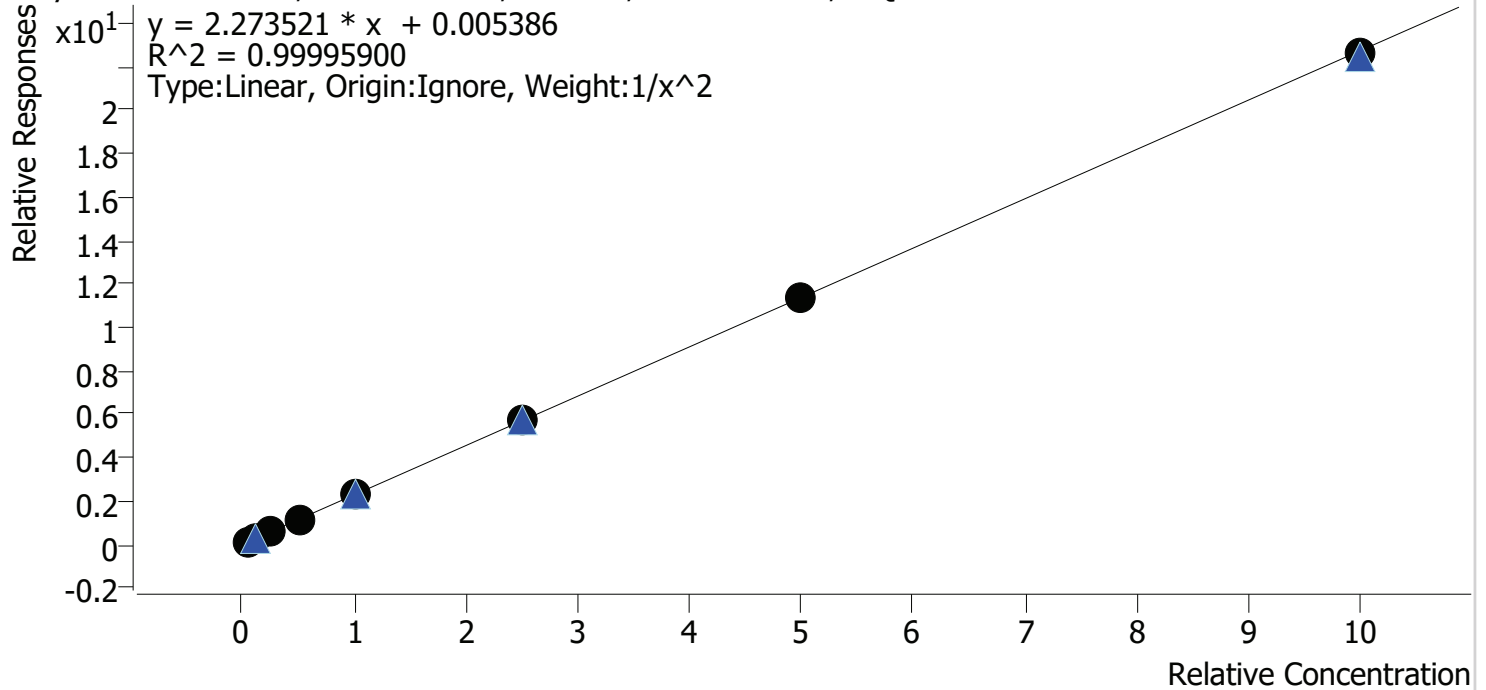


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.5	109.3
cal 2	2	✓	10.0	10.2	102.3
cal 3	3	✓	25.0	24.6	98.6
cal 4	4	✓	50.0	48.1	96.1
cal 5	5	✓	100.0	96.5	96.5
cal 6	6	✓	250.0	242.4	97.0
cal 7	7	✓	500.0	489.2	97.8
cal 8	8	✓	1000.0	1023.4	102.3

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte Doxylamine **Internal Standard** Doxylamine-D5

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

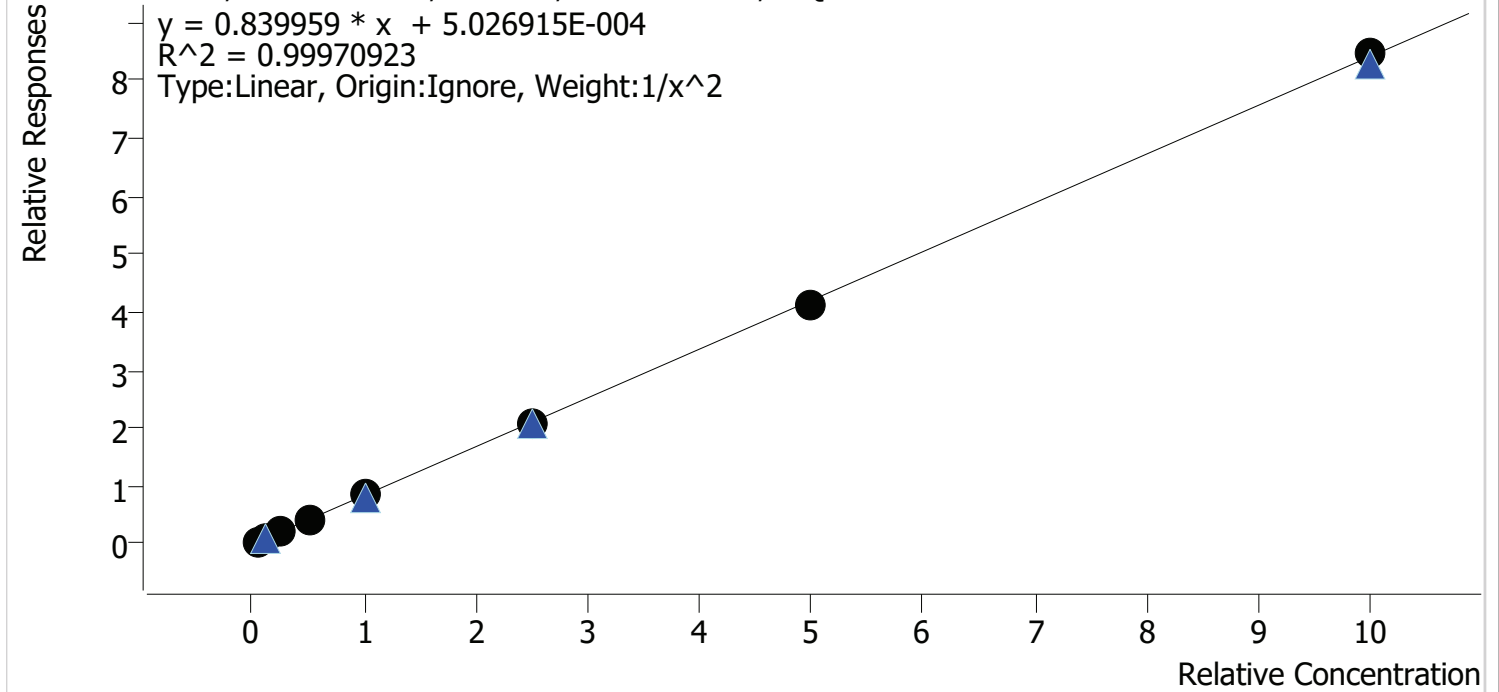


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	100.2
cal 2	2	✓	10.0	10.0	99.8
cal 3	3	✓	25.0	24.8	99.3
cal 4	4	✓	50.0	50.2	100.4
cal 5	5	✓	100.0	99.6	99.6
cal 6	6	✓	250.0	251.7	100.7
cal 7	7	✓	500.0	503.4	100.7
cal 8	8	✓	1000.0	994.3	99.4

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte EDDP **Internal Standard** EDDP-D3

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

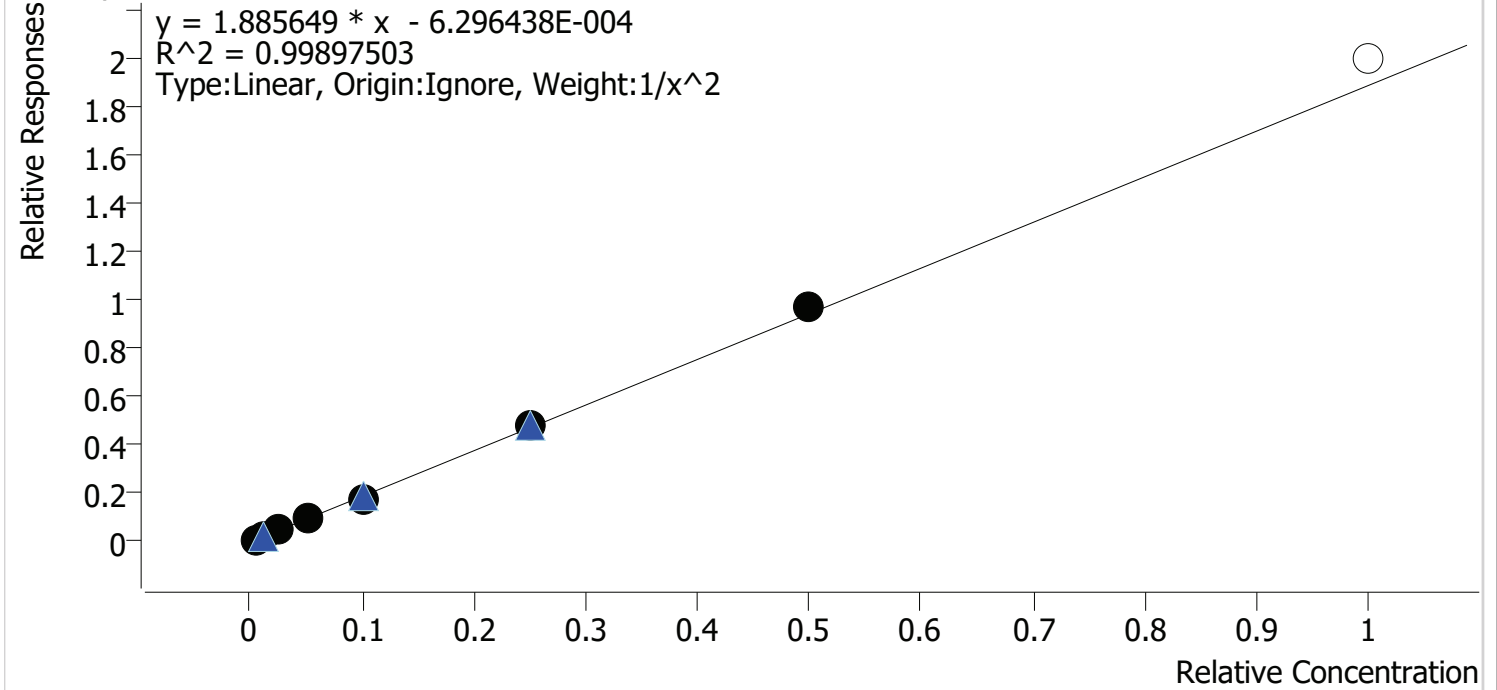


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	99.9
cal 2	2	✓	10.0	10.0	99.8
cal 3	3	✓	25.0	25.4	101.8
cal 4	4	✓	50.0	48.9	97.8
cal 5	5	✓	100.0	102.1	102.1
cal 6	6	✓	250.0	249.0	99.6
cal 7	7	✓	500.0	492.0	98.4
cal 8	8	✓	1000.0	1006.1	100.6

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte Fentanyl **Internal Standard** Fentanyl-D5

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

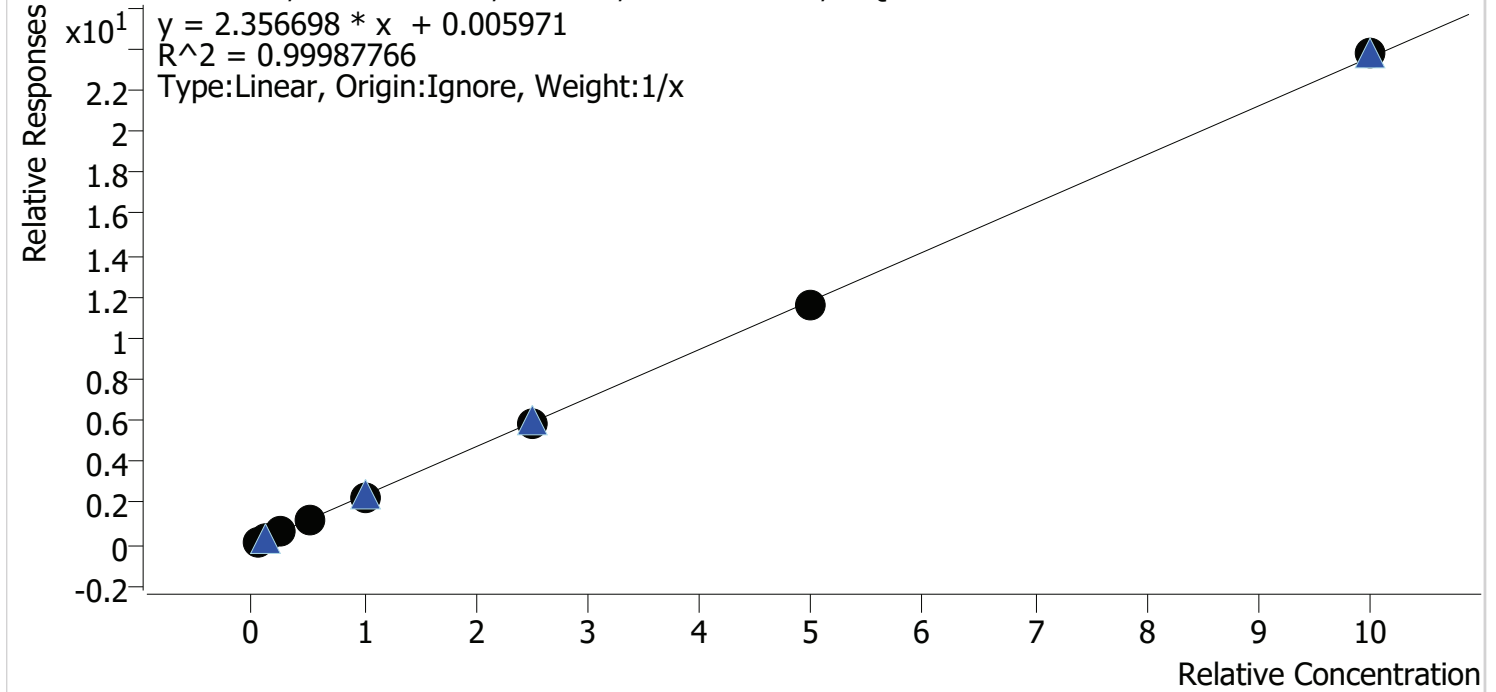


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	0.5	0.5	99.4
cal 2	2	✓	1.0	1.0	102.6
cal 3	3	✓	2.5	2.4	97.9
cal 4	4	✓	5.0	4.9	98.9
cal 5	5	✓	10.0	9.6	95.9
cal 6	6	✓	25.0	25.6	102.4
cal 7	7	✓	50.0	51.4	102.9
cal 8	8	×	100.0	106.0	106.0

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte Fluoxetine **Internal Standard** Fluoxetine-D6

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

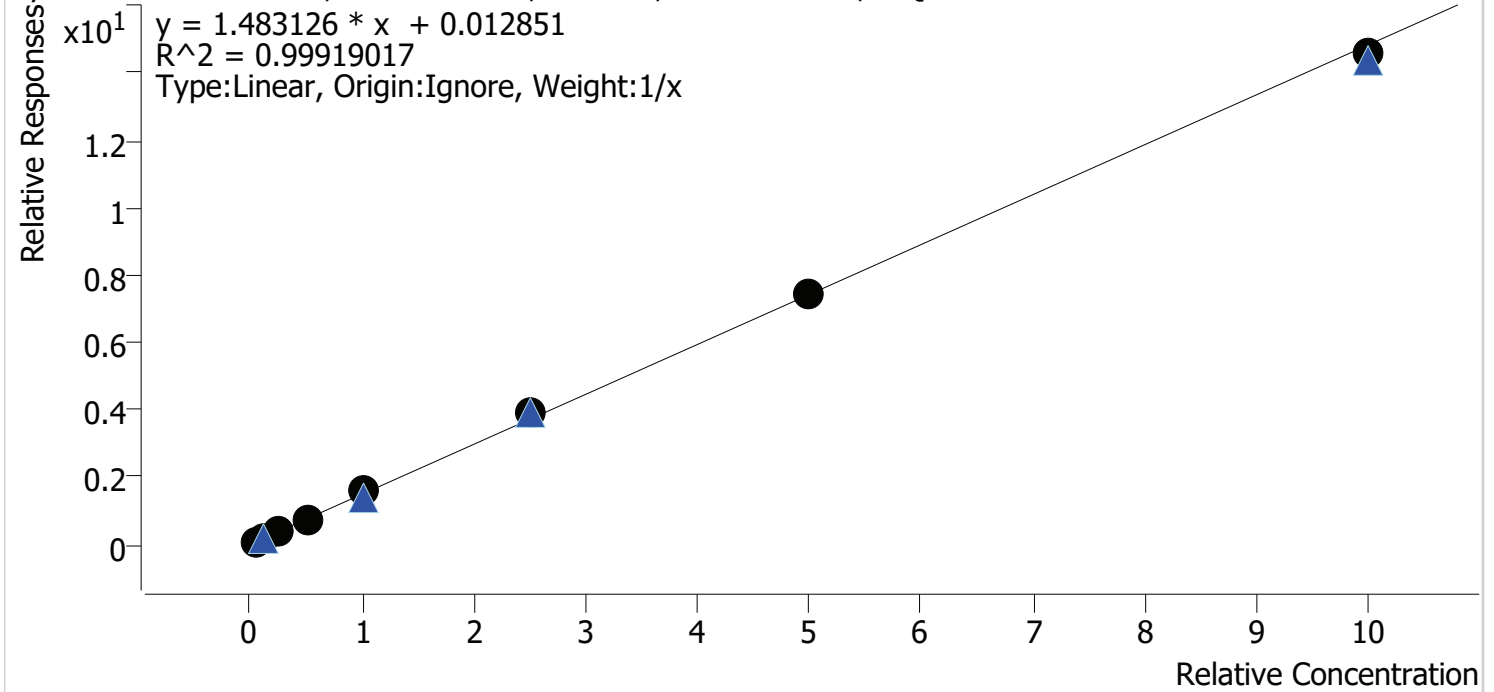


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	98.9
cal 2	2	✓	10.0	10.1	101.2
cal 3	3	✓	25.0	24.8	99.1
cal 4	4	✓	50.0	51.3	102.6
cal 5	5	✓	100.0	98.8	98.8
cal 6	6	✓	250.0	250.8	100.3
cal 7	7	✓	500.0	492.4	98.5
cal 8	8	✓	1000.0	1006.8	100.7

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte Hydrocodone **Internal Standard** Hydrocodone-D6

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

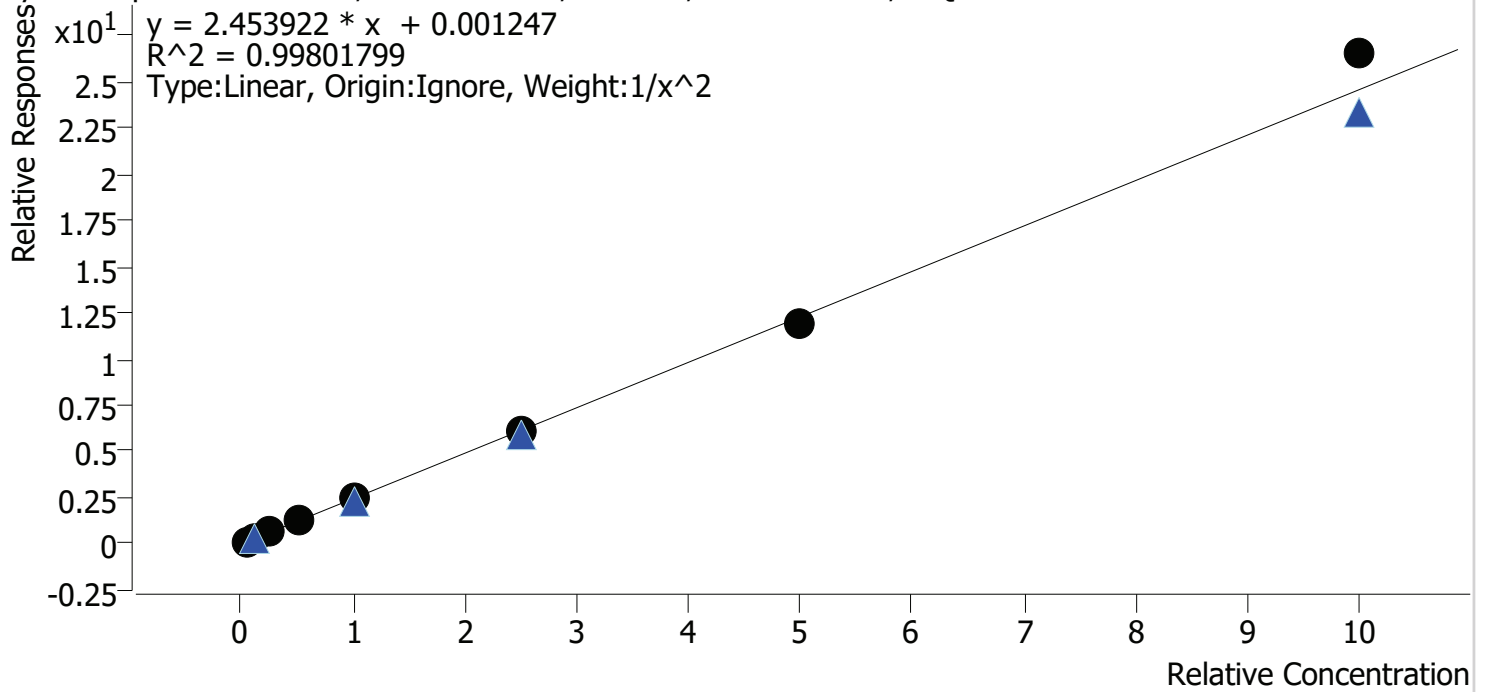


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.7	93.9
cal 2	2	✓	10.0	10.0	100.0
cal 3	3	✓	25.0	26.0	104.0
cal 4	4	✓	50.0	47.0	93.9
cal 5	5	✓	100.0	104.2	104.2
cal 6	6	✓	250.0	263.2	105.3
cal 7	7	✓	500.0	502.3	100.5
cal 8	8	✓	1000.0	982.6	98.3

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte Hydromorphone **Internal Standard** Hydromorphone-D6

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

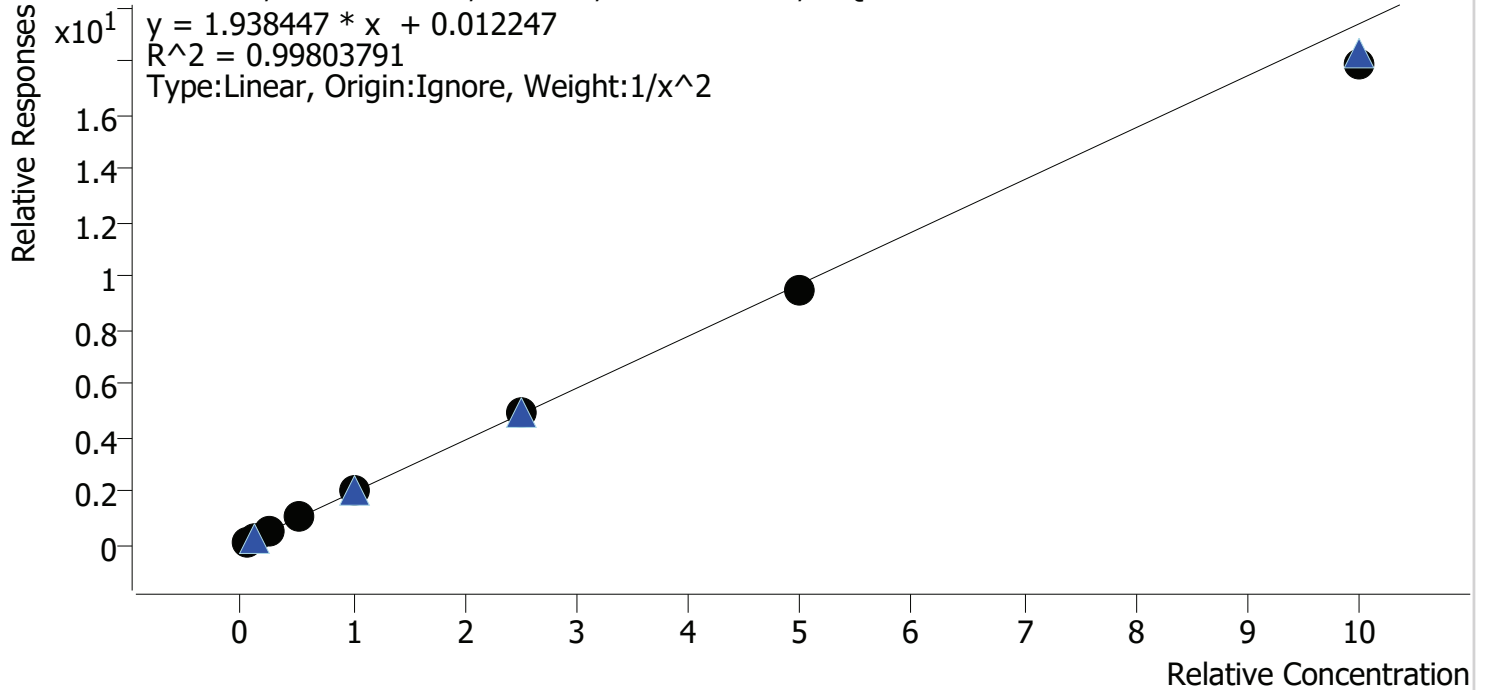


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.1	102.4
cal 2	2	✓	10.0	9.7	96.6
cal 3	3	✓	25.0	24.2	96.7
cal 4	4	✓	50.0	49.8	99.7
cal 5	5	✓	100.0	101.5	101.5
cal 6	6	✓	250.0	245.0	98.0
cal 7	7	✓	500.0	486.3	97.3
cal 8	8	✓	1000.0	1079.4	107.9

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte Ketamine **Internal Standard** Ketamine-D4

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

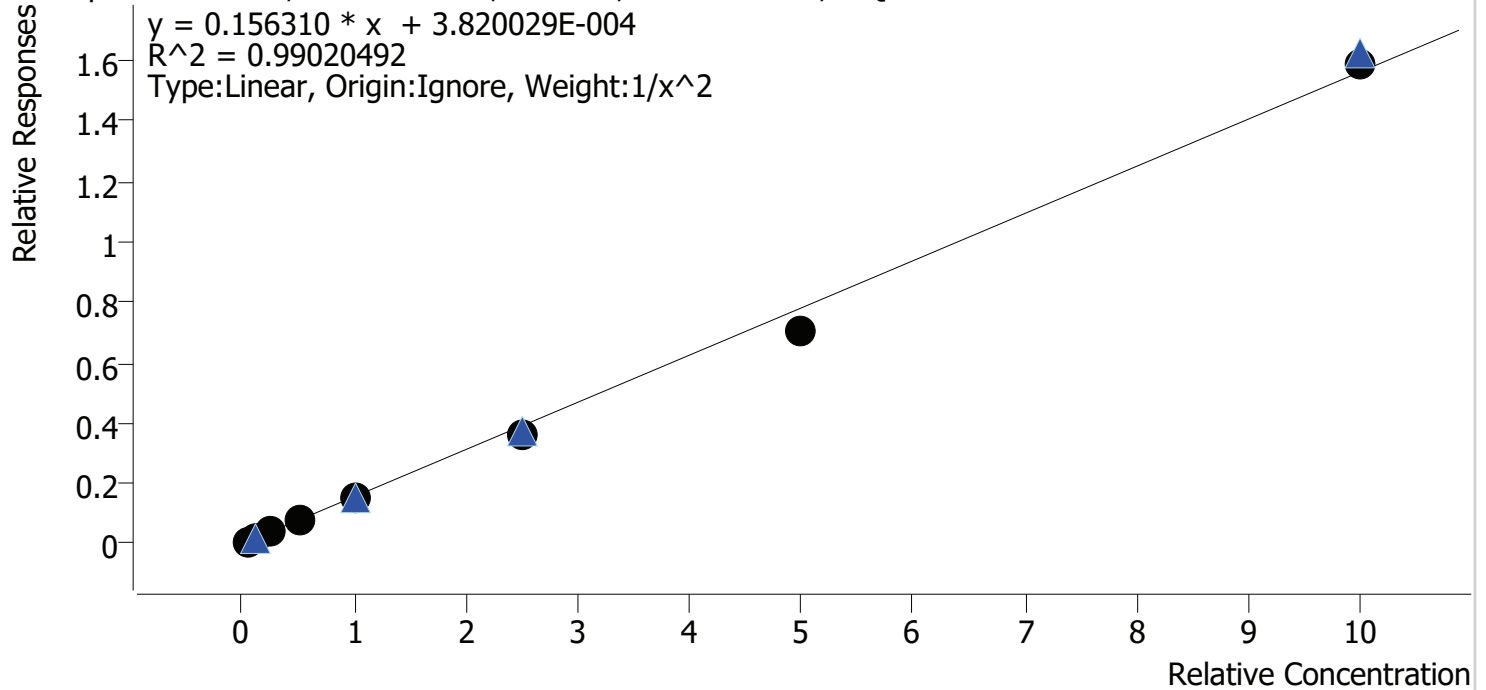


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	98.8
cal 2	2	✓	10.0	10.1	100.5
cal 3	3	✓	25.0	25.6	102.3
cal 4	4	✓	50.0	51.9	103.8
cal 5	5	✓	100.0	103.2	103.2
cal 6	6	✓	250.0	254.5	101.8
cal 7	7	✓	500.0	487.3	97.5
cal 8	8	✓	1000.0	921.2	92.1

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte Lorazepam **Internal Standard** Alprazolam-D5

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

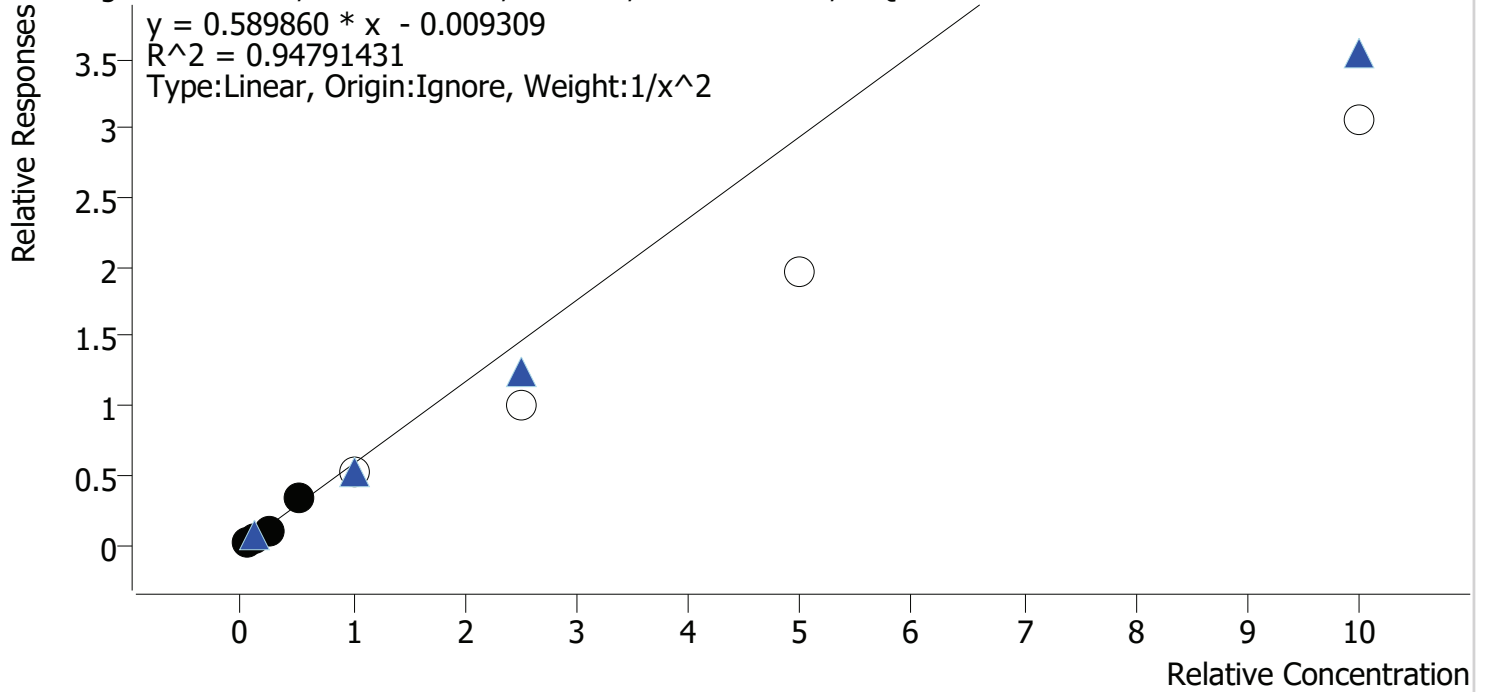


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.6	91.4
cal 2	2	✓	10.0	11.3	112.8
cal 3	3	✓	25.0	27.9	111.6
cal 4	4	✓	50.0	51.0	102.0
cal 5	5	✓	100.0	97.2	97.2
cal 6	6	✓	250.0	231.8	92.7
cal 7	7	✓	500.0	454.6	90.9
cal 8	8	✓	1000.0	1013.0	101.3

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte Lamotrigine **Internal Standard** Dextromethorphan-D3

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

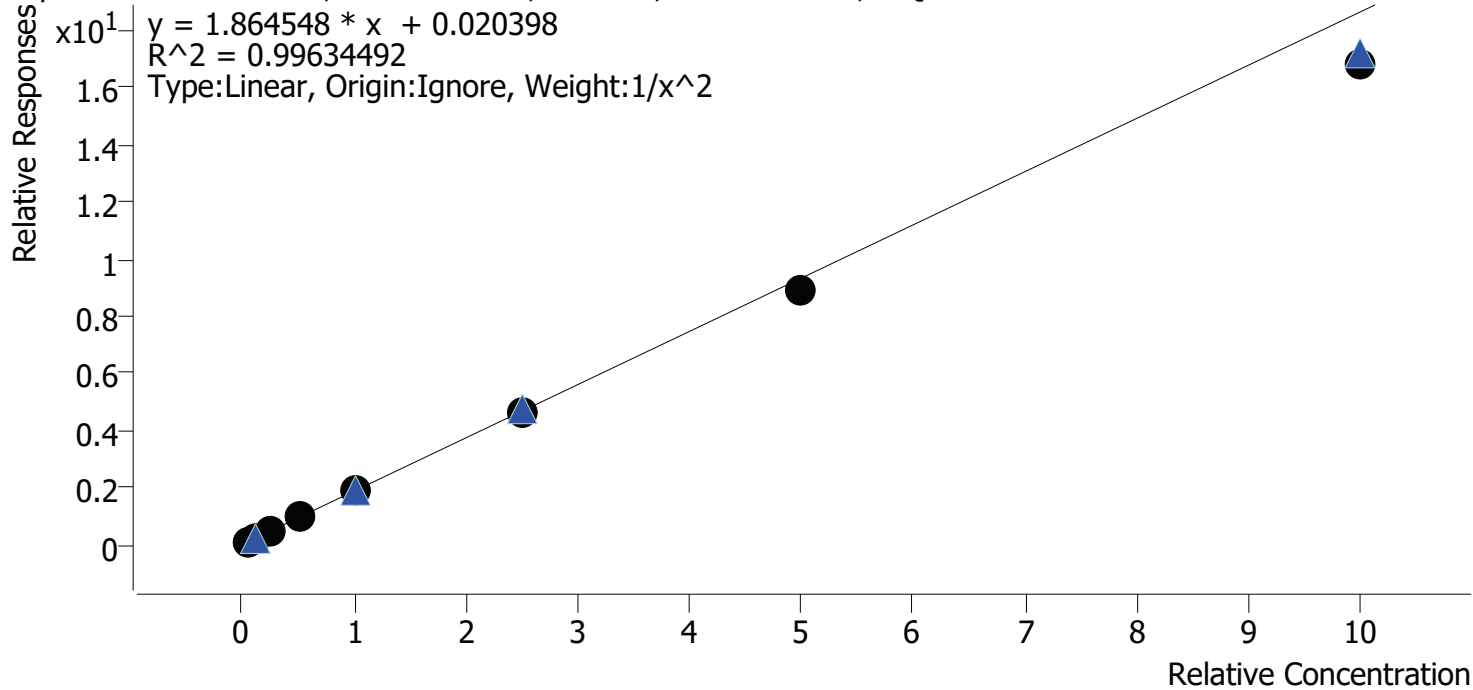


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.1	101.9
cal 2	2	✓	10.0	10.1	101.2
cal 3	3	✓	25.0	19.6	78.2
cal 4	4	✓	50.0	59.3	118.7
cal 5	5	×	100.0	89.3	89.3
cal 6	6	×	250.0	171.5	68.6
cal 7	7	×	500.0	333.8	66.8
cal 8	8	×	1000.0	522.5	52.2

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte Meprobamate **Internal Standard** Meprobamate-D7

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

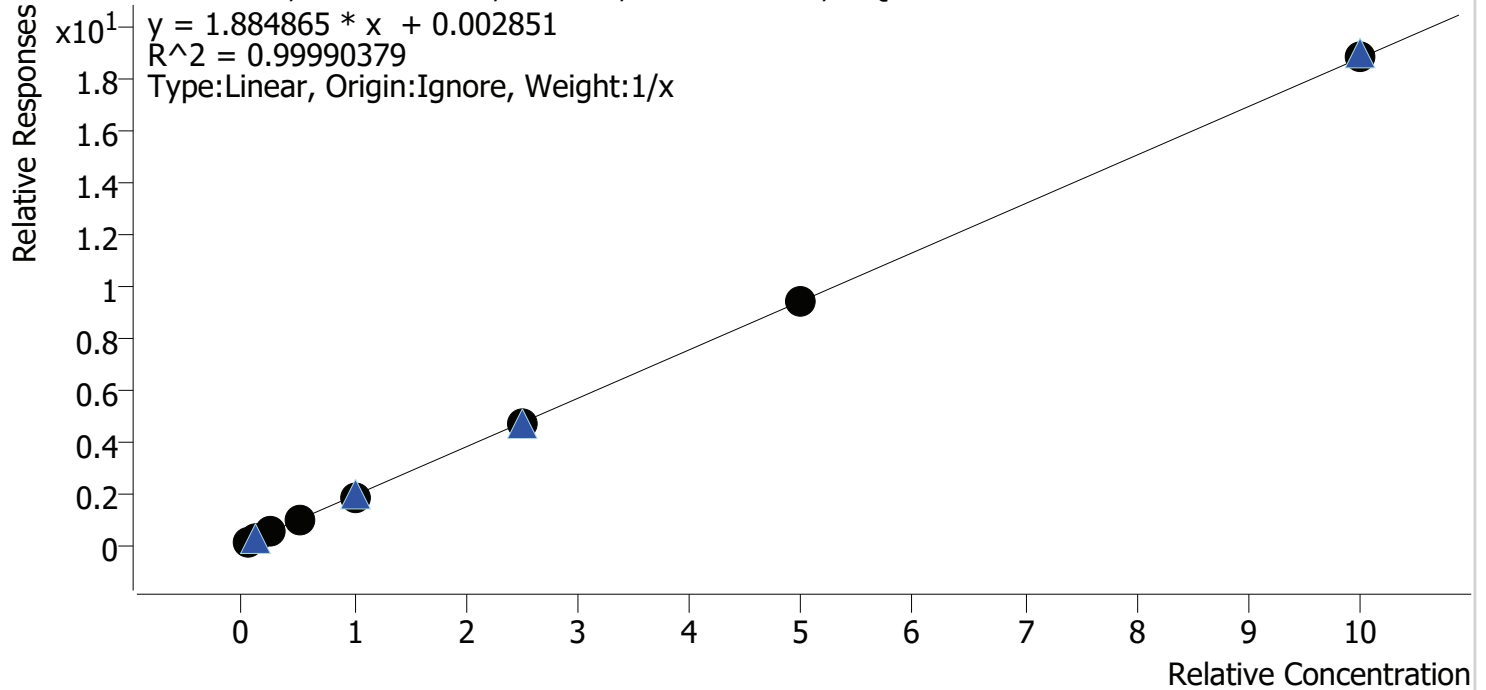


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	97.3
cal 2	2	✓	10.0	10.2	102.2
cal 3	3	✓	25.0	26.0	104.1
cal 4	4	✓	50.0	53.3	106.6
cal 5	5	✓	100.0	103.7	103.7
cal 6	6	✓	250.0	249.2	99.7
cal 7	7	✓	500.0	479.6	95.9
cal 8	8	✓	1000.0	904.7	90.5

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte Methadone **Internal Standard** Methadone-D9

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

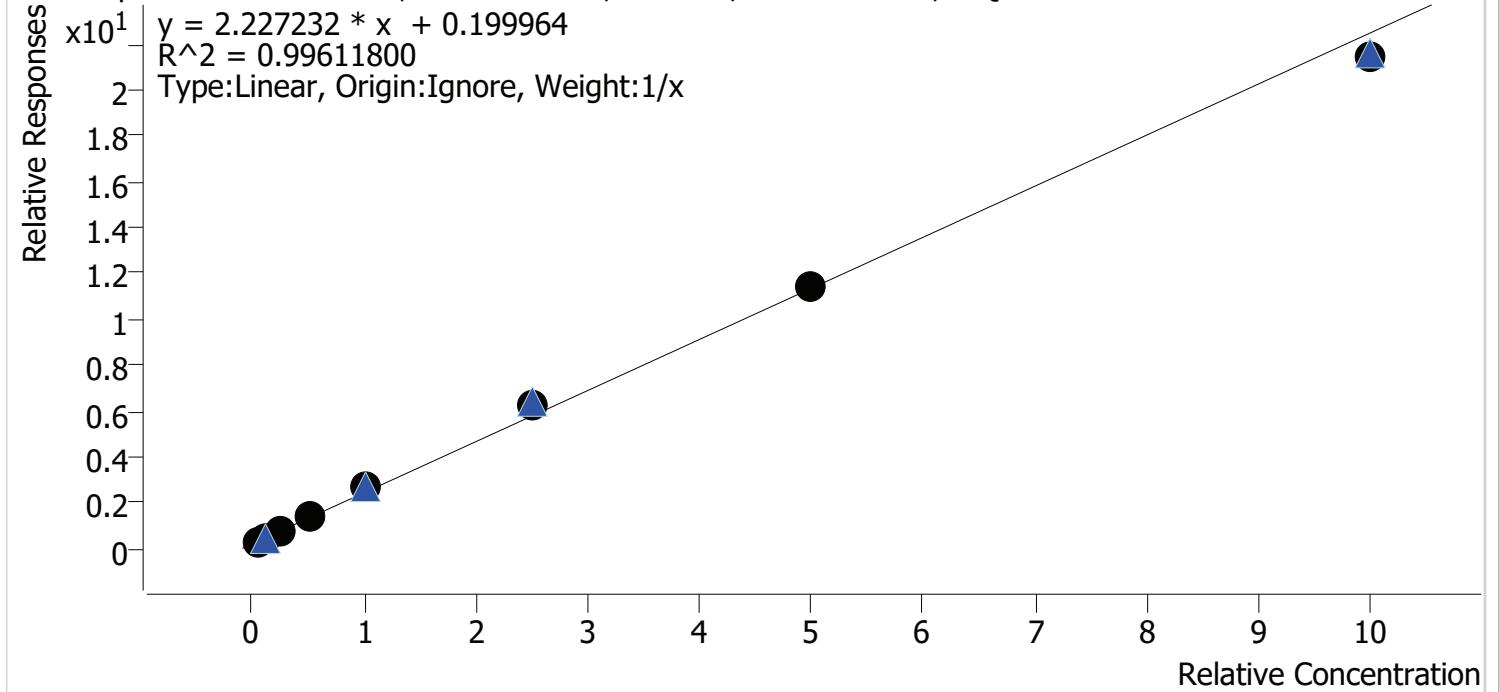


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	100.9
cal 2	2	✓	10.0	10.2	101.9
cal 3	3	✓	25.0	24.8	99.1
cal 4	4	✓	50.0	50.8	101.6
cal 5	5	✓	100.0	96.8	96.8
cal 6	6	✓	250.0	249.2	99.7
cal 7	7	✓	500.0	497.4	99.5
cal 8	8	✓	1000.0	1005.8	100.6

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte Methamphetamine **Internal Standard** Methamphetamine-D11

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

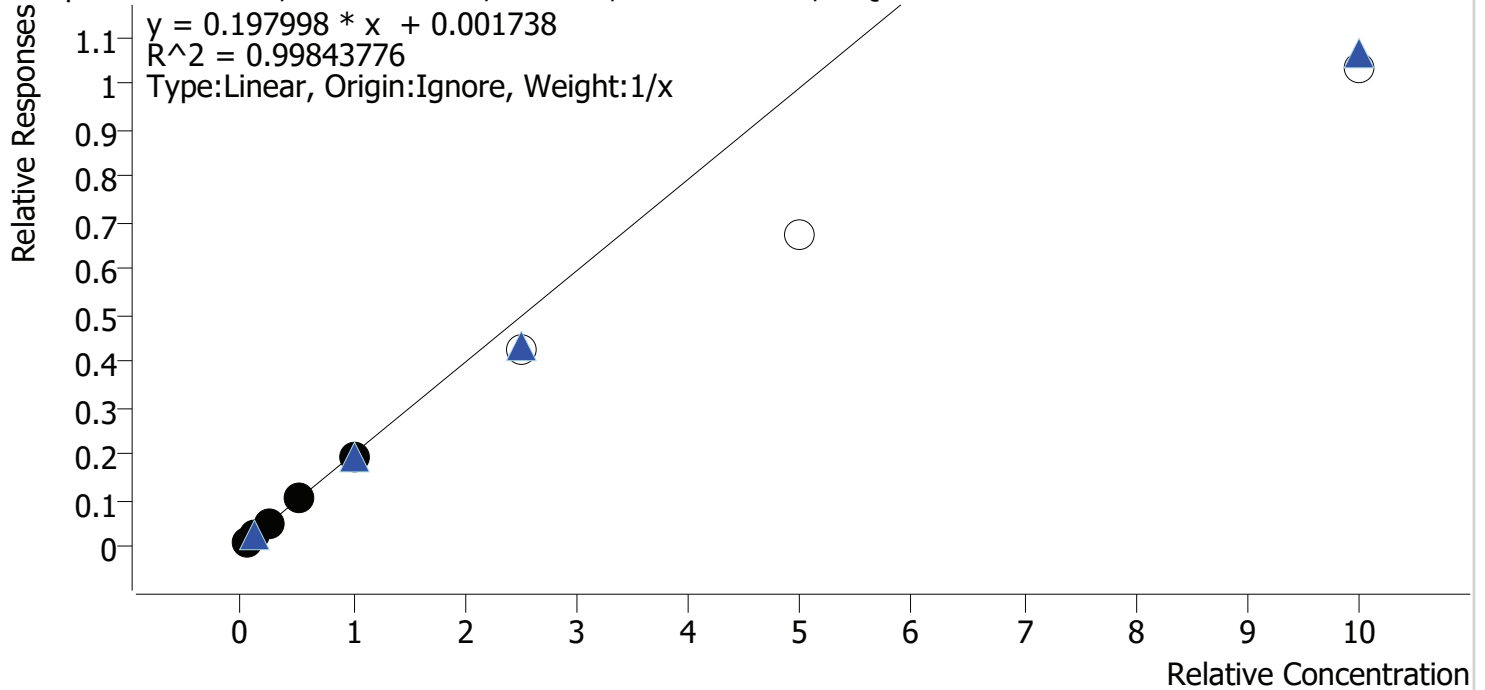


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.0	80.1
cal 2	2	✓	10.0	8.6	85.9
cal 3	3	✓	25.0	25.9	103.4
cal 4	4	✓	50.0	56.9	113.8
cal 5	5	✓	100.0	110.6	110.6
cal 6	6	✓	250.0	274.4	109.7
cal 7	7	✓	500.0	504.3	100.9
cal 8	8	✓	1000.0	955.4	95.5

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/22/2020 12:23 PM
Analyst Name ISP\datastor
Analyte Metoprolol **Internal Standard** Doxylamine-D5

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

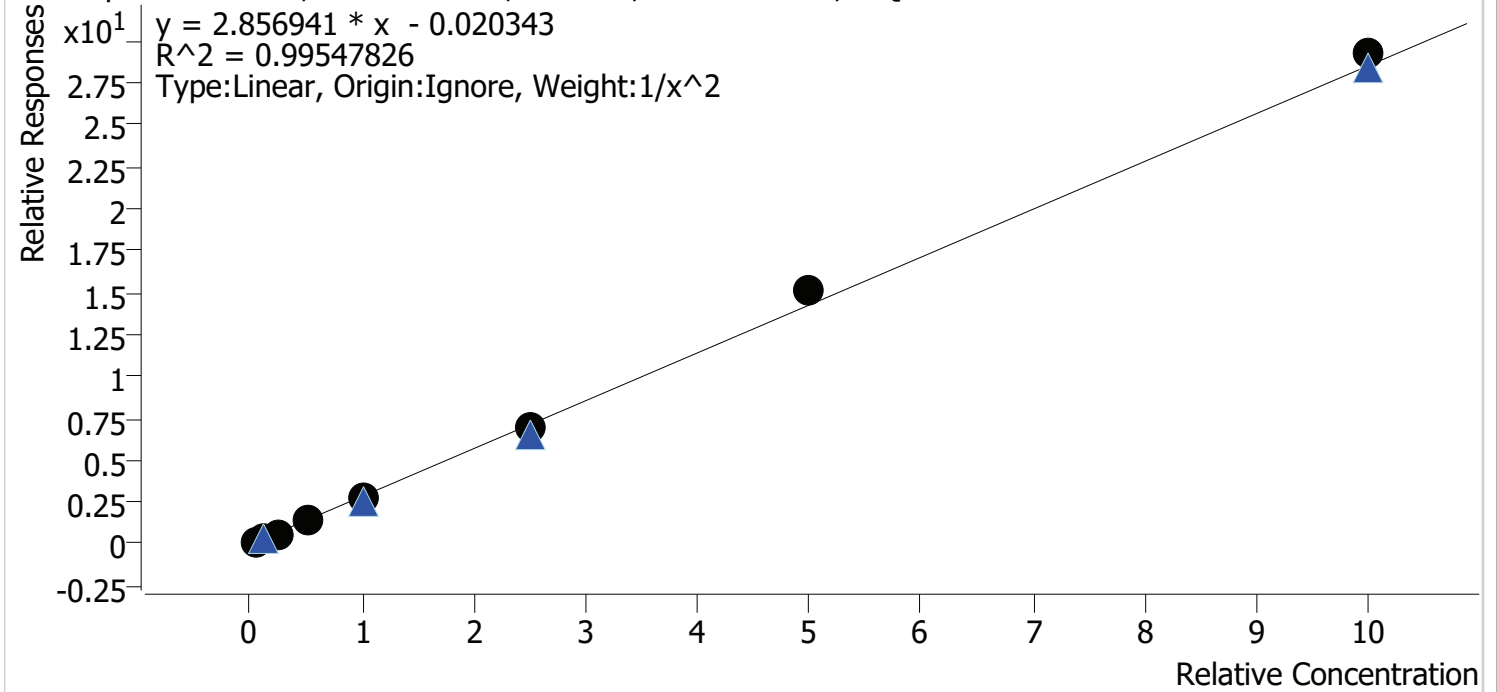


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.5	90.7
cal 2	2	✓	10.0	10.9	108.8
cal 3	3	✓	25.0	24.8	99.3
cal 4	4	✓	50.0	51.4	102.9
cal 5	5	✓	100.0	98.3	98.3
cal 6	6	×	250.0	212.4	85.0
cal 7	7	×	500.0	341.1	68.2
cal 8	8	×	1000.0	521.3	52.1

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte Mirtazapine **Internal Standard** Methadone-D9

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

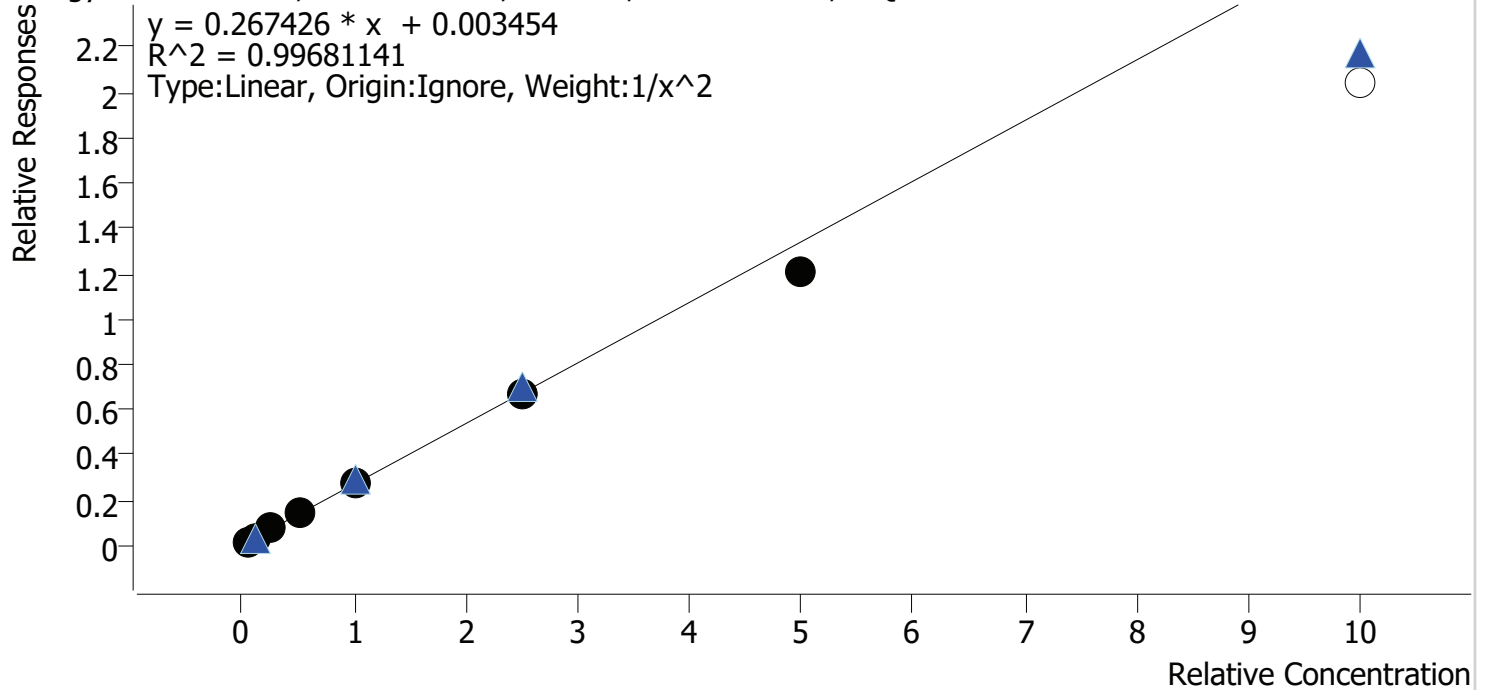


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.2	104.1
cal 2	2	✓	10.0	9.4	94.1
cal 3	3	✓	25.0	22.7	91.0
cal 4	4	✓	50.0	53.8	107.6
cal 5	5	✓	100.0	97.6	97.6
cal 6	6	✓	250.0	243.8	97.5
cal 7	7	✓	500.0	527.9	105.6
cal 8	8	✓	1000.0	1025.5	102.6

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte Mitragynine **Internal Standard** Methadone-D9

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

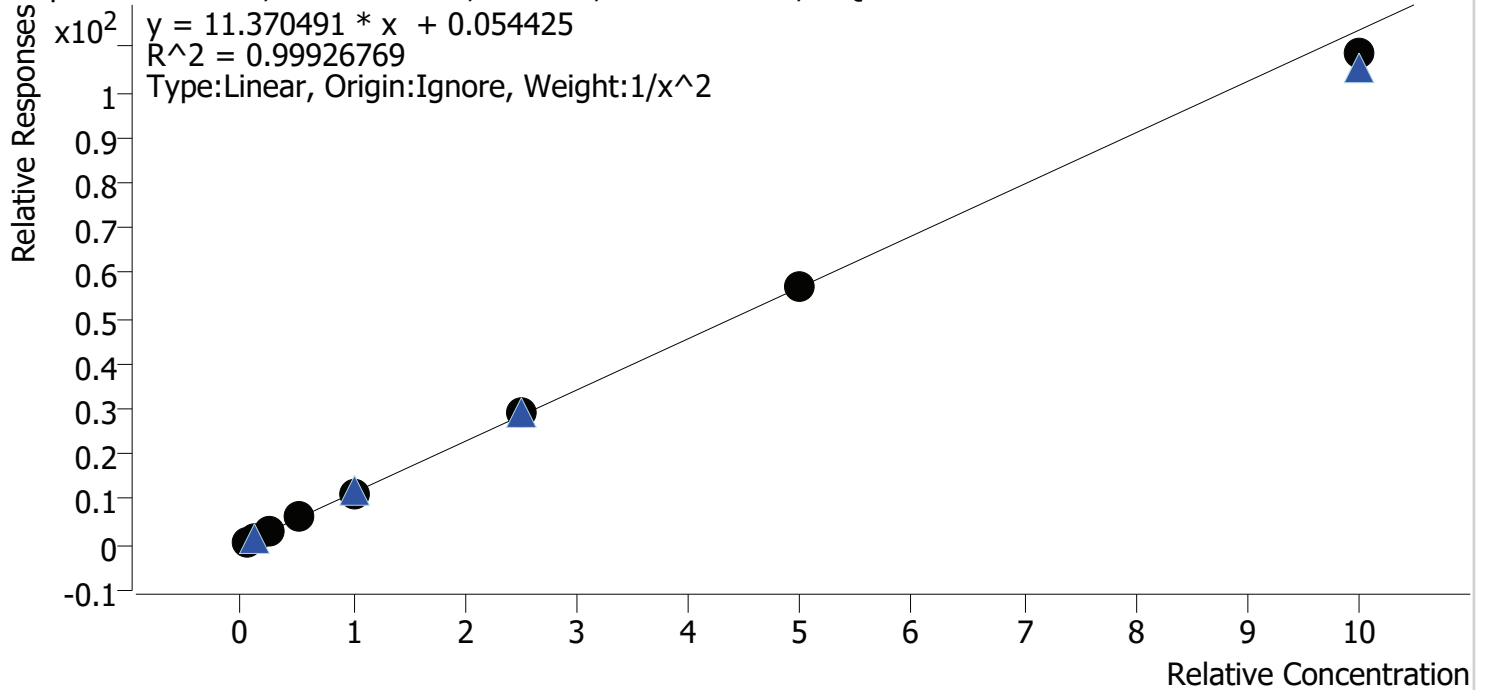


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	97.9
cal 2	2	✓	10.0	10.2	102.3
cal 3	3	✓	25.0	25.6	102.5
cal 4	4	✓	50.0	51.7	103.4
cal 5	5	✓	100.0	103.6	103.6
cal 6	6	✓	250.0	250.3	100.1
cal 7	7	✓	500.0	450.8	90.2
cal 8	8	×	1000.0	764.3	76.4

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte Morphine **Internal Standard** Morphine-D6

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



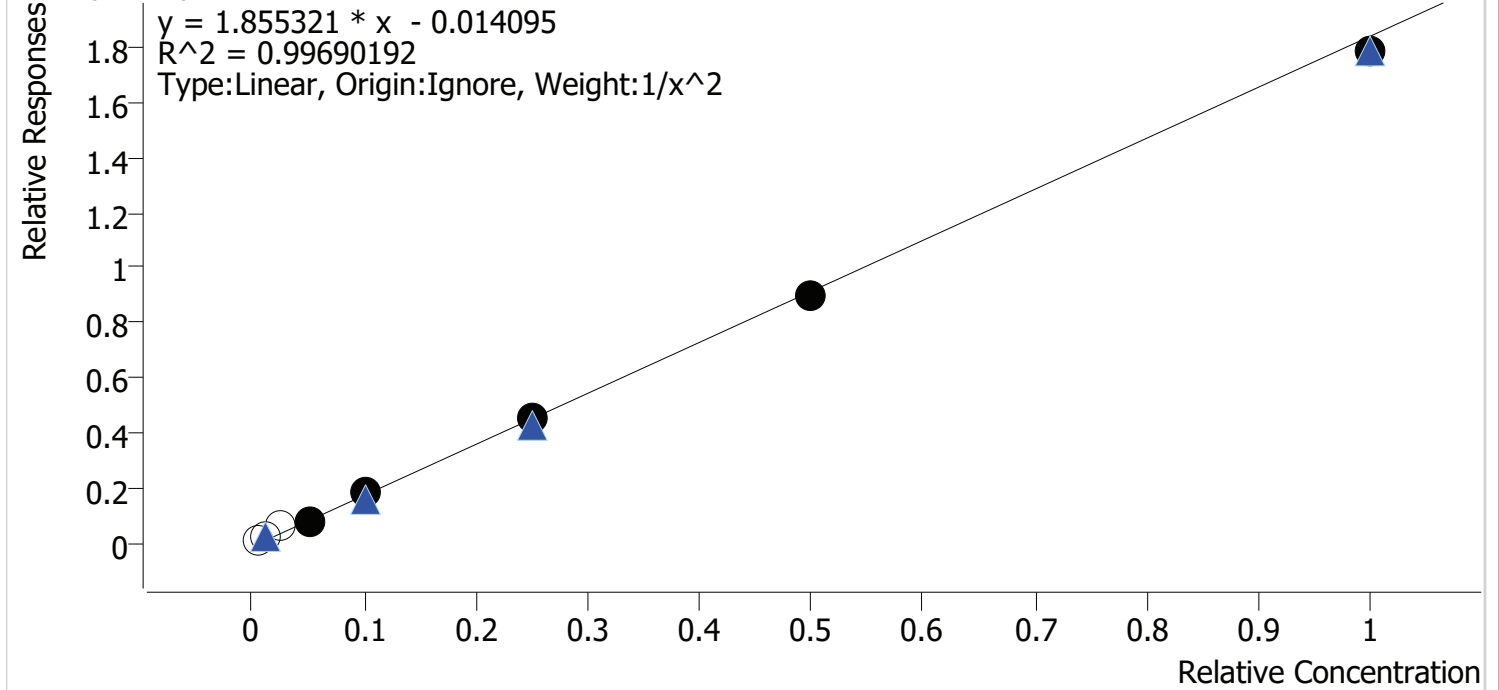
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	99.9
cal 2	2	✓	10.0	10.0	100.1
cal 3	3	✓	25.0	24.6	98.4
cal 4	4	✓	50.0	51.5	103.1
cal 5	5	✓	100.0	100.0	100.0
cal 6	6	✓	250.0	255.7	102.3
cal 7	7	✓	500.0	504.0	100.8
cal 8	8	✓	1000.0	954.2	95.4

Compound Calibration Report



Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte Norbuprenorphine **Internal Standard** Norbuprenorphine-D3

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

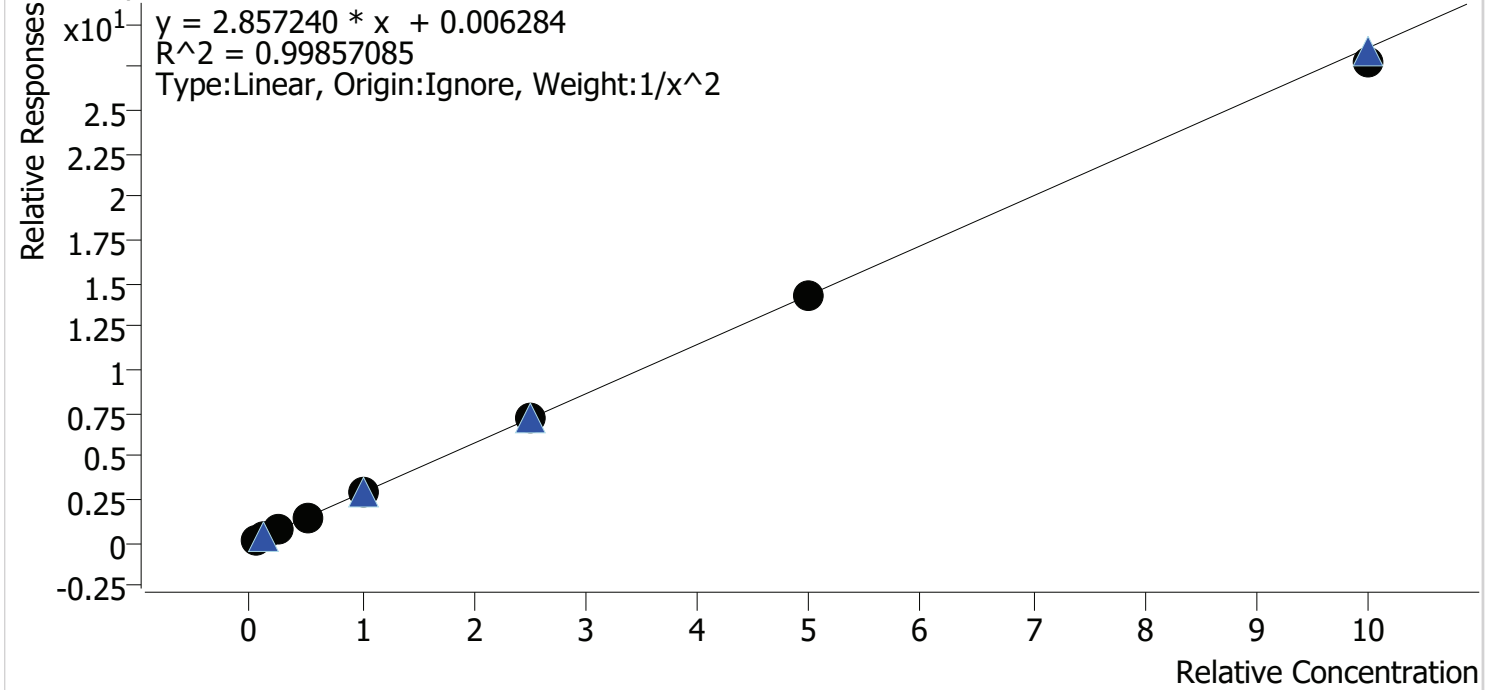


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	×	0.5	1.3	262.3
cal 2	2	×	1.0	2.0	199.4
cal 3	3	×	2.5	4.3	170.4
cal 4	4	✓	5.0	4.8	96.6
cal 5	5	✓	10.0	10.7	107.0
cal 6	6	✓	25.0	25.3	101.1
cal 7	7	✓	50.0	49.1	98.3
cal 8	8	✓	100.0	97.0	97.0

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte Nordiazepam **Internal Standard** Nordiazepam-D5

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

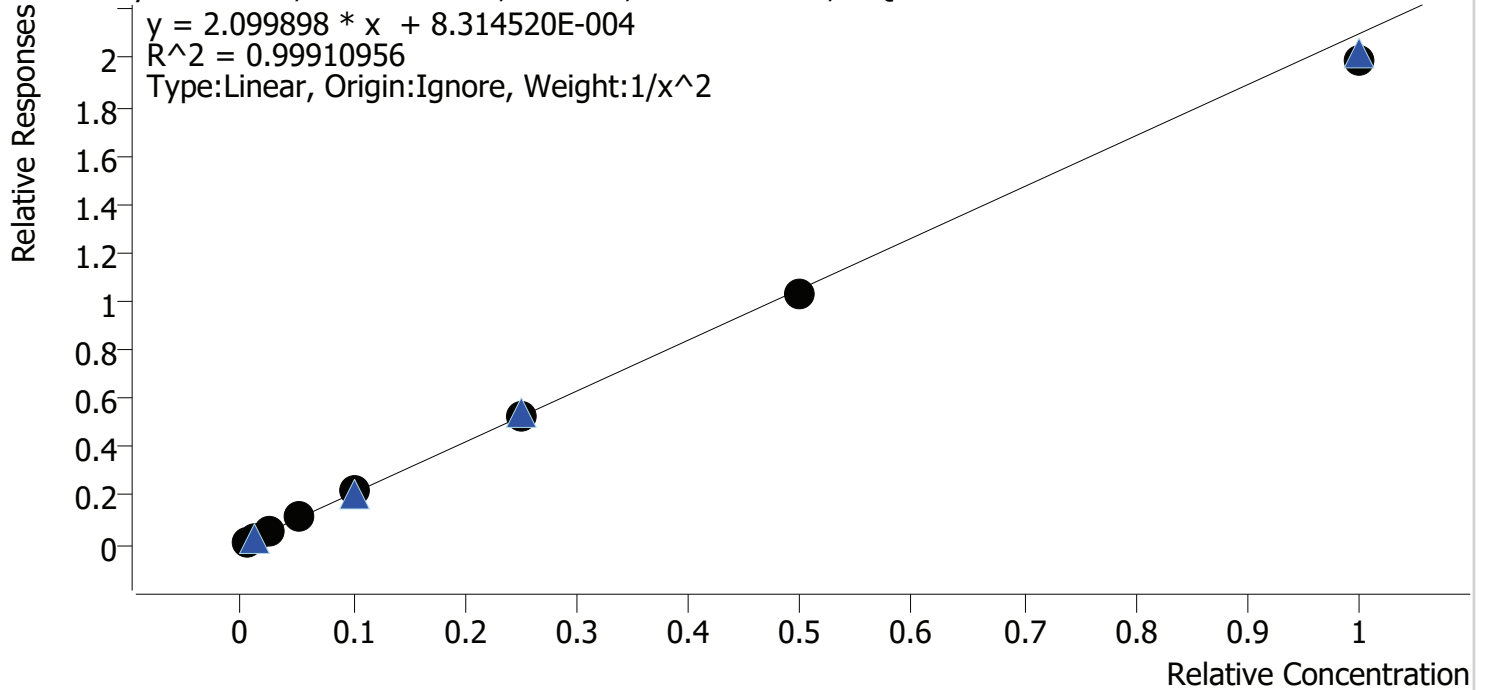


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.8	96.6
cal 2	2	✓	10.0	10.6	106.4
cal 3	3	✓	25.0	25.0	99.9
cal 4	4	✓	50.0	51.7	103.3
cal 5	5	✓	100.0	98.4	98.4
cal 6	6	✓	250.0	247.8	99.1
cal 7	7	✓	500.0	496.5	99.3
cal 8	8	✓	1000.0	970.0	97.0

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte Norfentanyl **Internal Standard** Norfentanyl-D5

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

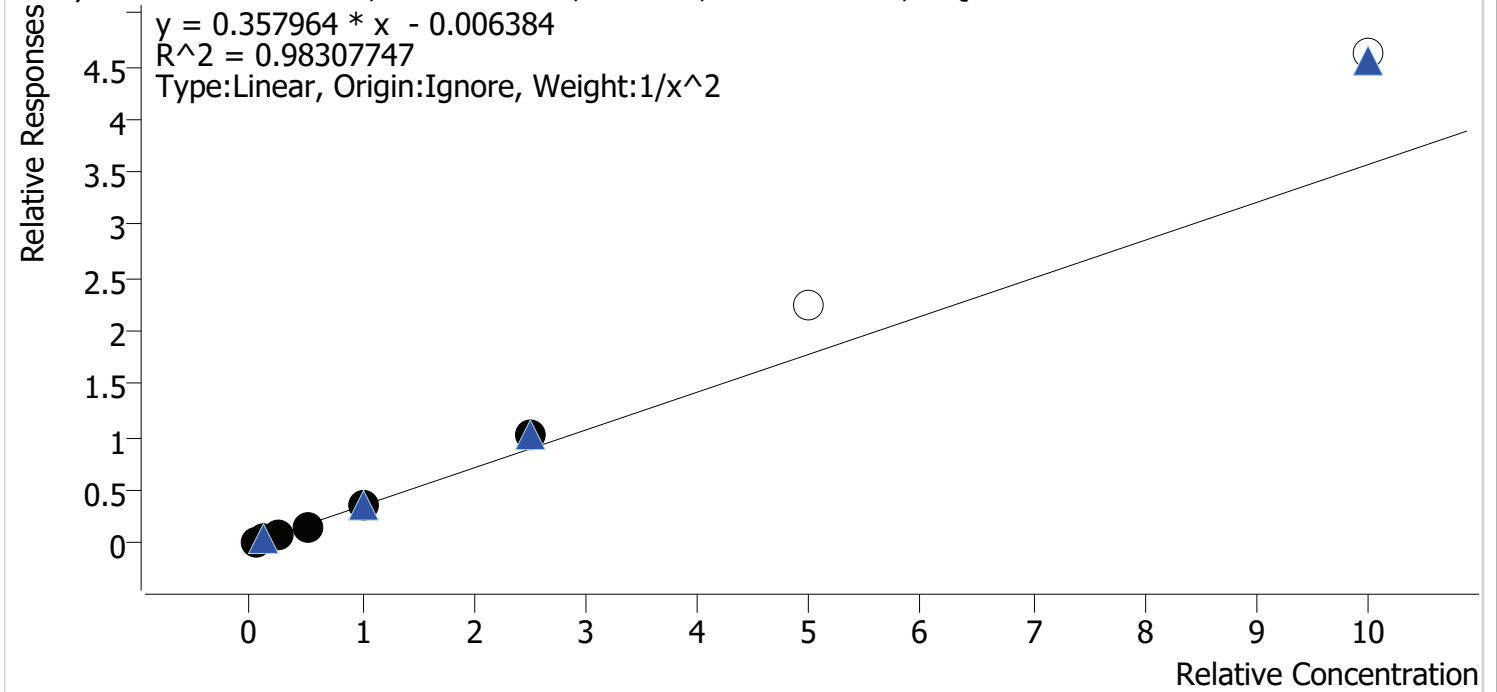


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	0.5	0.5	99.0
cal 2	2	✓	1.0	1.0	100.8
cal 3	3	✓	2.5	2.5	100.8
cal 4	4	✓	5.0	5.2	103.1
cal 5	5	✓	10.0	10.2	102.1
cal 6	6	✓	25.0	25.2	100.8
cal 7	7	✓	50.0	49.3	98.5
cal 8	8	✓	100.0	94.8	94.8

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte Norhydrocodone **Internal Standard** Norhydrocodone-D3

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

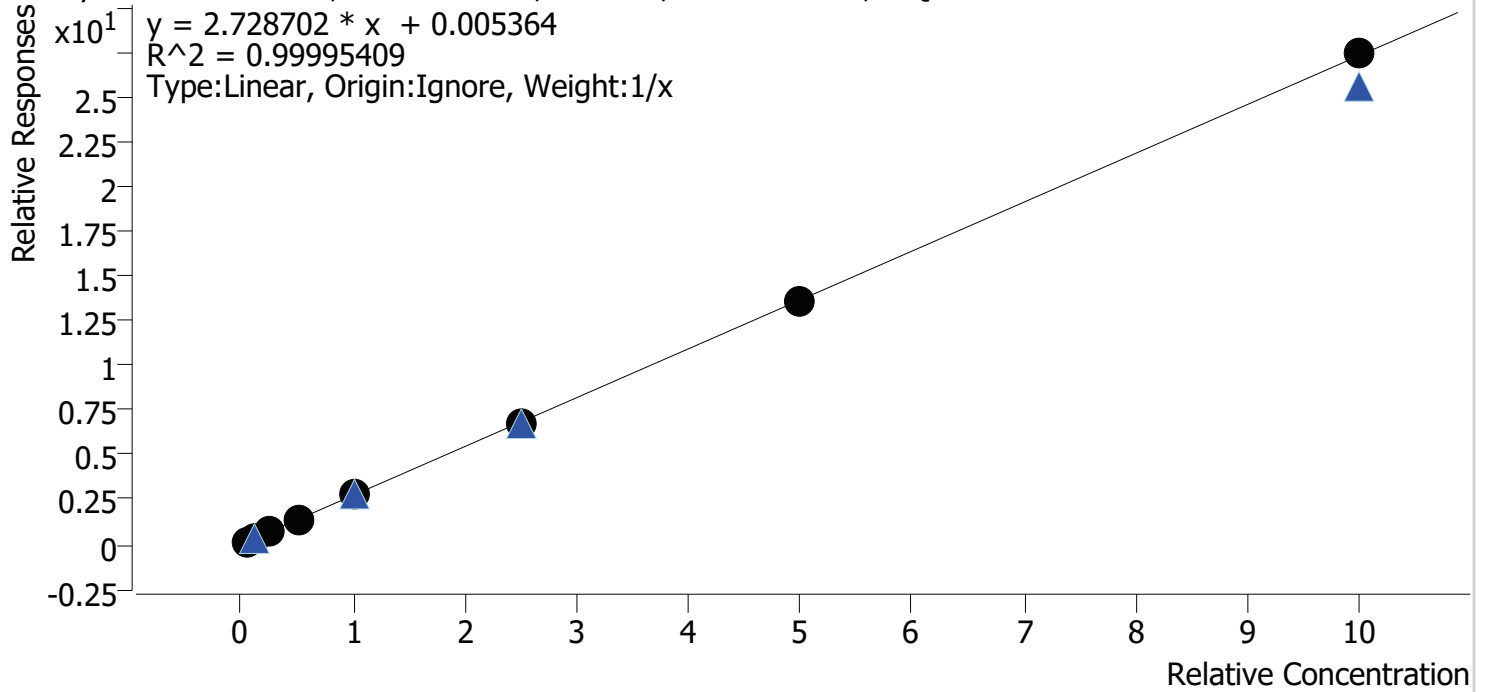


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.4	107.7
cal 2	2	✓	10.0	8.9	88.6
cal 3	3	✓	25.0	22.6	90.4
cal 4	4	✓	50.0	47.5	95.0
cal 5	5	✓	100.0	102.1	102.1
cal 6	6	✓	250.0	290.4	116.2
cal 7	7	×	500.0	634.3	126.9
cal 8	8	×	1000.0	1292.6	129.3

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte Noroxycodone **Internal Standard** Noroxycodone-D3

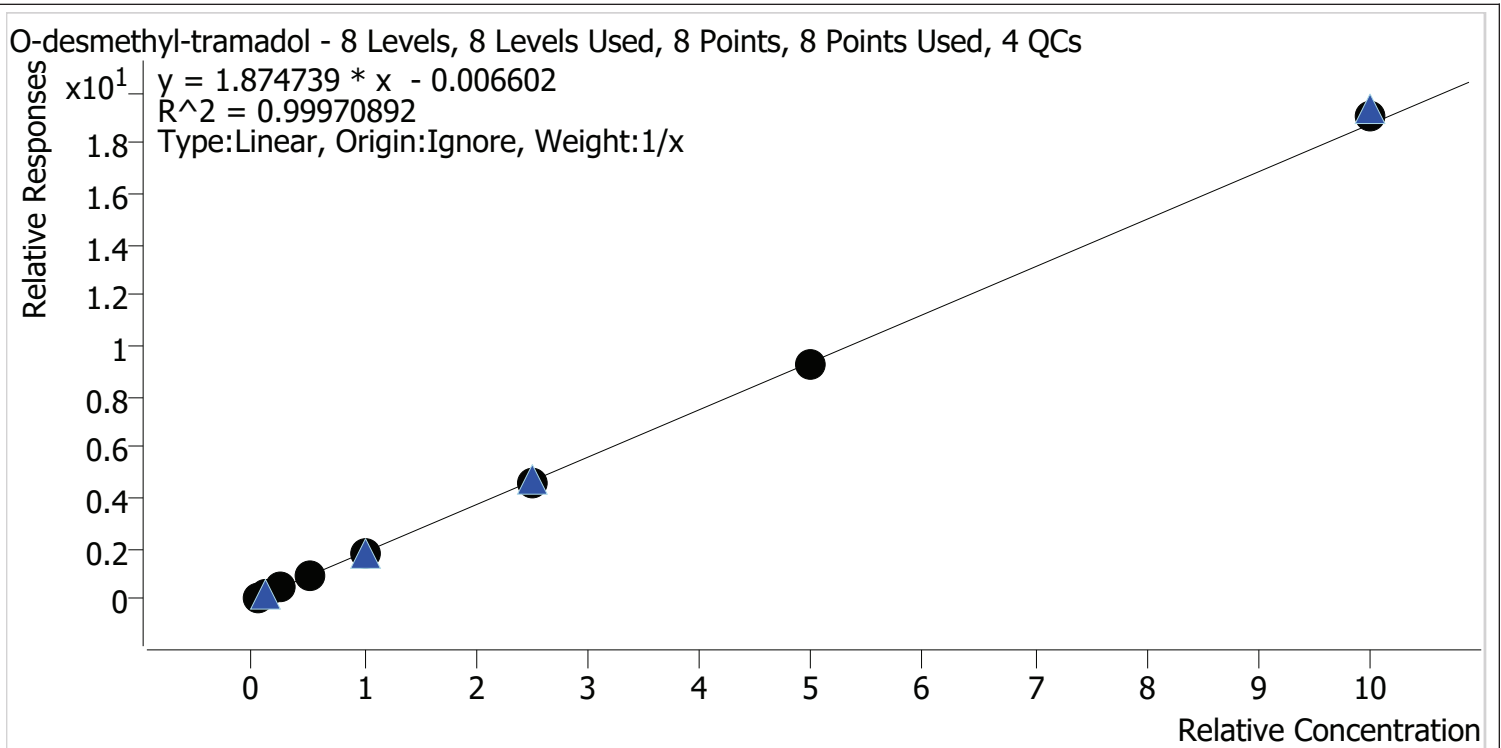
Noroxycodone - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	100.9
cal 2	2	✓	10.0	9.7	97.4
cal 3	3	✓	25.0	25.2	100.7
cal 4	4	✓	50.0	50.7	101.4
cal 5	5	✓	100.0	100.3	100.3
cal 6	6	✓	250.0	249.4	99.8
cal 7	7	✓	500.0	495.4	99.1
cal 8	8	✓	1000.0	1004.2	100.4

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte O-desmethyl-tramadol **Internal Standard** O-desmethyl-tramadol-D6

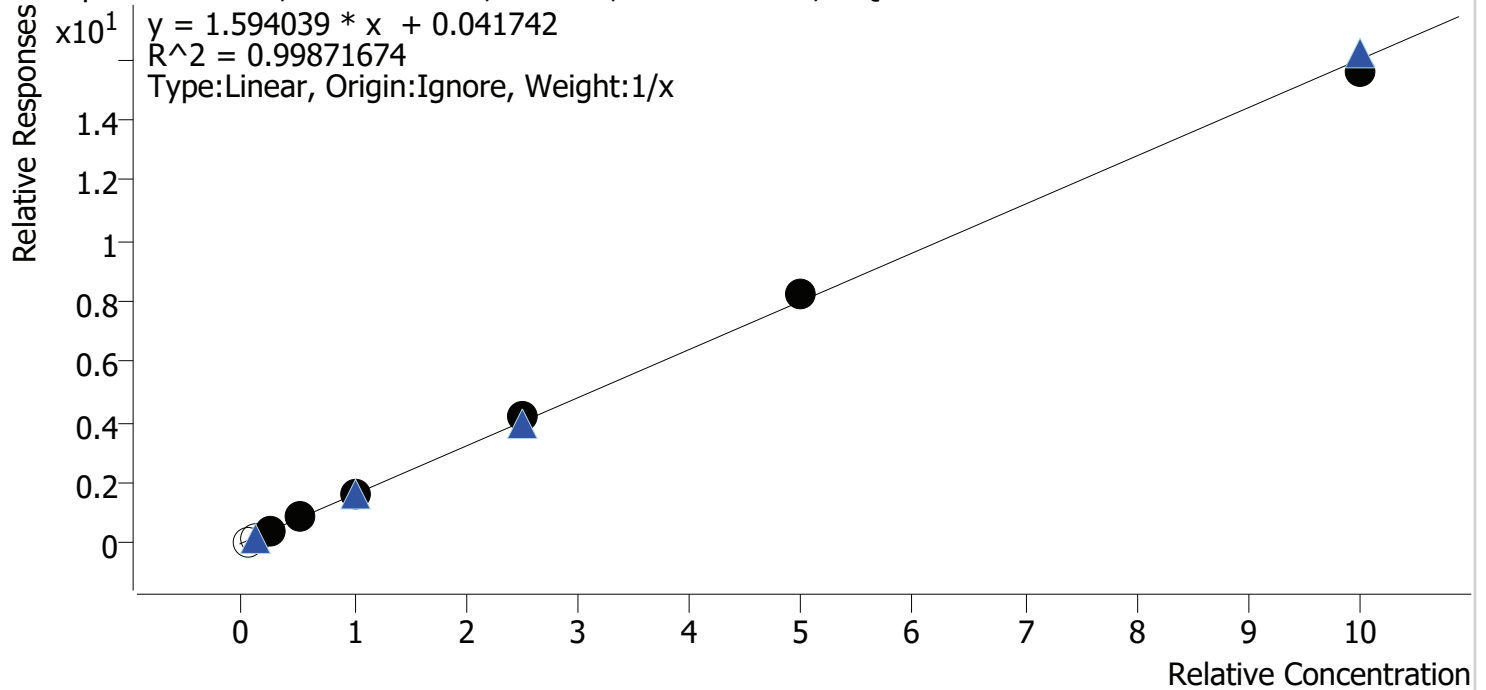


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.3	106.0
cal 2	2	✓	10.0	10.2	101.9
cal 3	3	✓	25.0	24.7	98.7
cal 4	4	✓	50.0	49.5	98.9
cal 5	5	✓	100.0	96.1	96.1
cal 6	6	✓	250.0	244.5	97.8
cal 7	7	✓	500.0	496.3	99.3
cal 8	8	✓	1000.0	1013.5	101.4

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte Oxazepam **Internal Standard** Oxazepam-D5

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

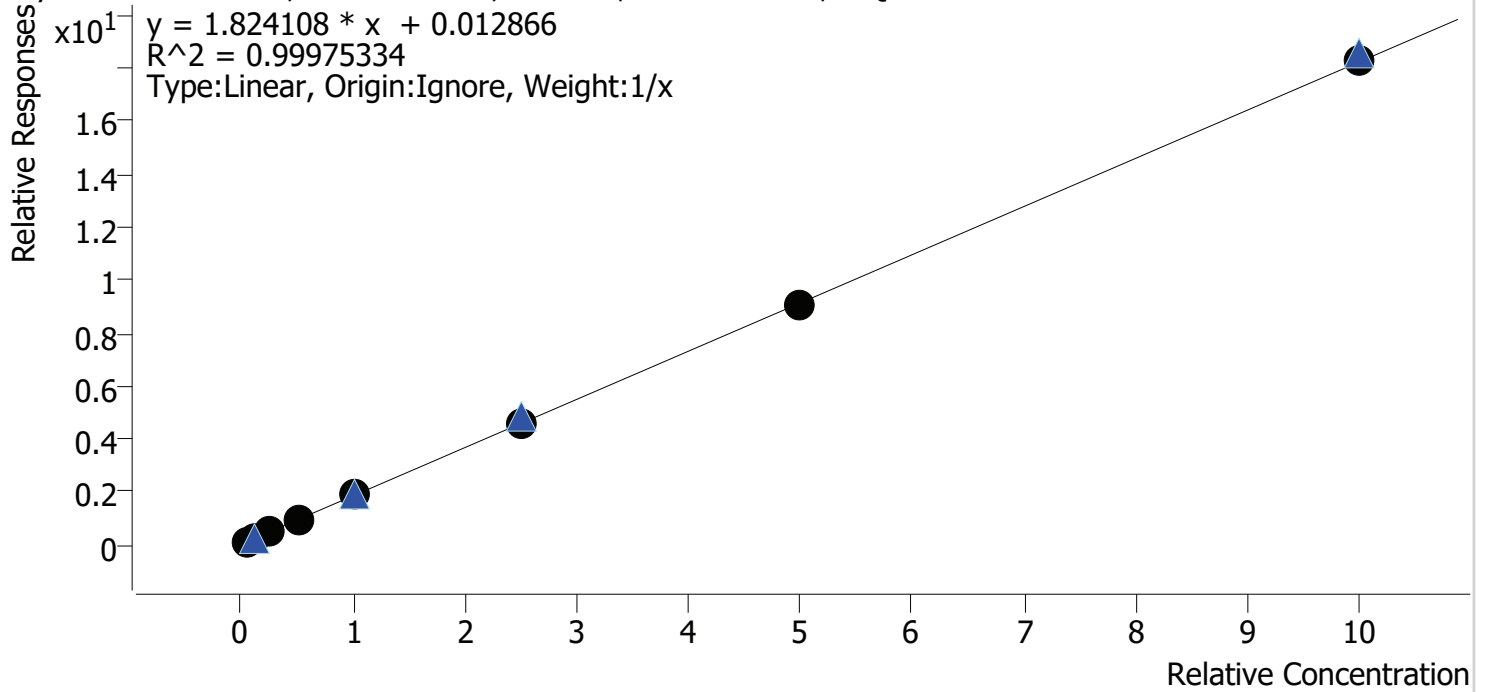


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	×	5.0	2.3	45.0
cal 2	2	×	10.0	8.0	79.6
cal 3	3	✓	25.0	23.3	93.2
cal 4	4	✓	50.0	51.5	102.9
cal 5	5	✓	100.0	98.8	98.8
cal 6	6	✓	250.0	261.1	104.4
cal 7	7	✓	500.0	516.4	103.3
cal 8	8	✓	1000.0	974.0	97.4

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte Oxycodone **Internal Standard** Oxycodone-D6

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

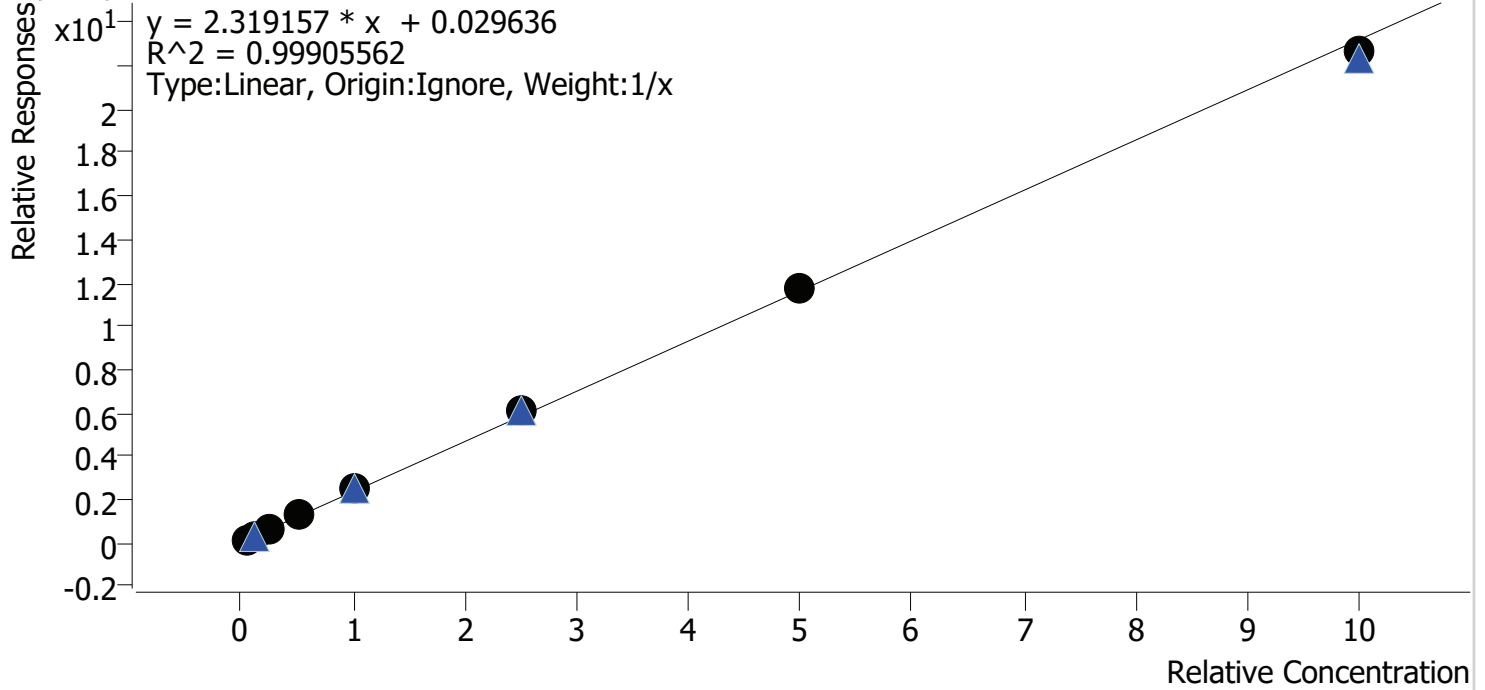


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.7	93.6
cal 2	2	✓	10.0	9.6	96.1
cal 3	3	✓	25.0	25.7	102.7
cal 4	4	✓	50.0	53.1	106.2
cal 5	5	✓	100.0	102.0	102.0
cal 6	6	✓	250.0	252.2	100.9
cal 7	7	✓	500.0	492.0	98.4
cal 8	8	✓	1000.0	1000.7	100.1

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte Oxymorphone **Internal Standard** Oxymorphone-D3

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

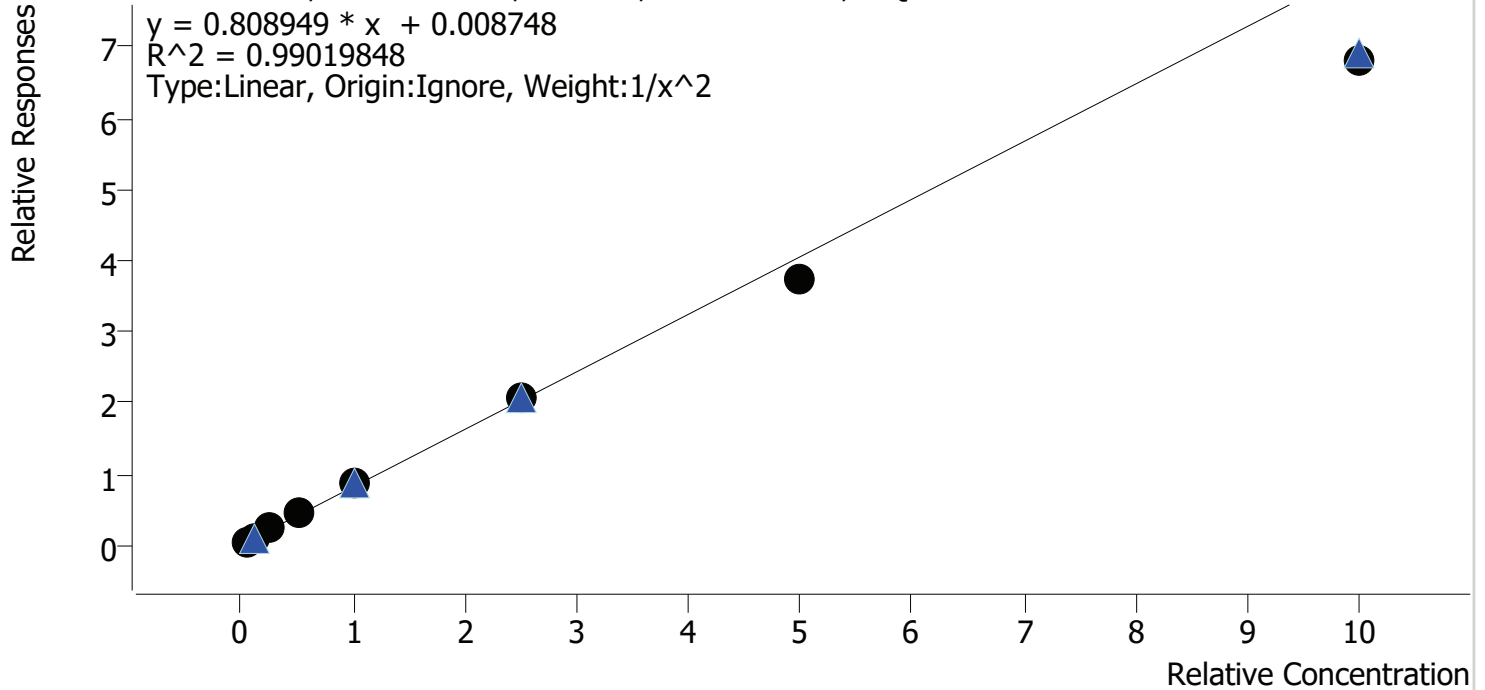


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.4	87.2
cal 2	2	✓	10.0	9.7	96.5
cal 3	3	✓	25.0	25.4	101.6
cal 4	4	✓	50.0	53.3	106.6
cal 5	5	✓	100.0	105.0	105.0
cal 6	6	✓	250.0	261.1	104.5
cal 7	7	✓	500.0	504.9	101.0
cal 8	8	✓	1000.0	976.3	97.6

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte Phentermine **Internal Standard** Phentermine-D5

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

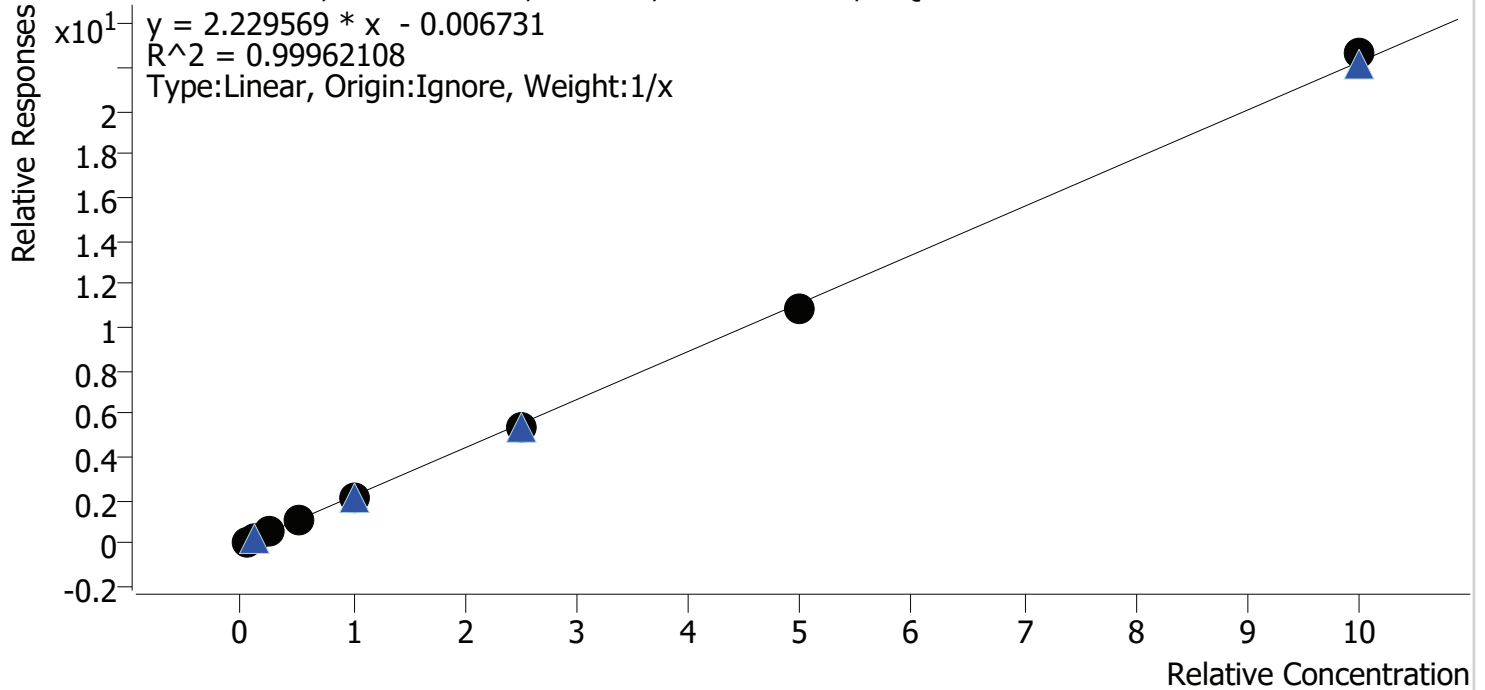


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.7	94.9
cal 2	2	✓	10.0	10.5	105.1
cal 3	3	✓	25.0	26.9	107.7
cal 4	4	✓	50.0	54.2	108.3
cal 5	5	✓	100.0	105.9	105.9
cal 6	6	✓	250.0	253.9	101.6
cal 7	7	✓	500.0	460.7	92.1
cal 8	8	✓	1000.0	844.1	84.4

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte Promethazine **Internal Standard** Promethazine-D3

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

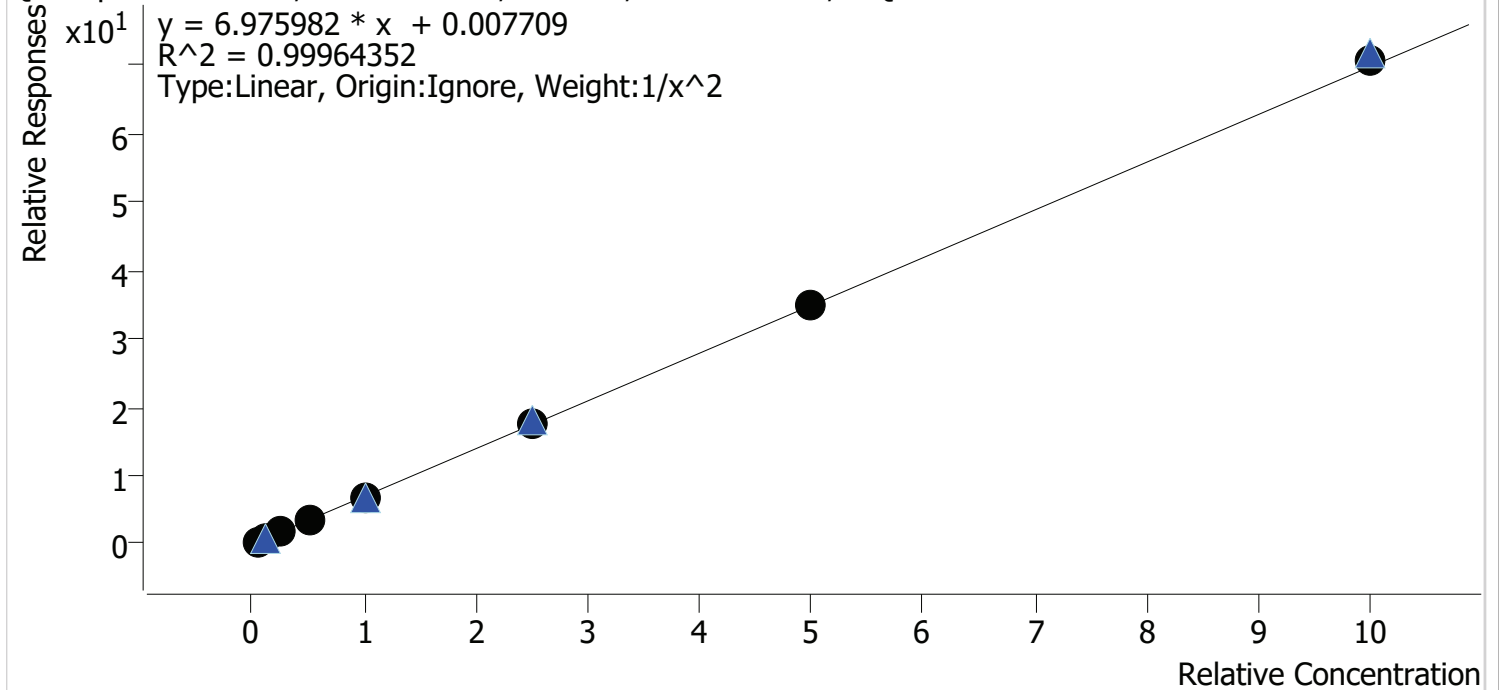


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.4	108.1
cal 2	2	✓	10.0	10.1	100.5
cal 3	3	✓	25.0	24.5	97.8
cal 4	4	✓	50.0	48.9	97.8
cal 5	5	✓	100.0	97.5	97.5
cal 6	6	✓	250.0	246.2	98.5
cal 7	7	✓	500.0	490.4	98.1
cal 8	8	✓	1000.0	1017.2	101.7

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte Quetiapine **Internal Standard** Quetiapine-D8

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

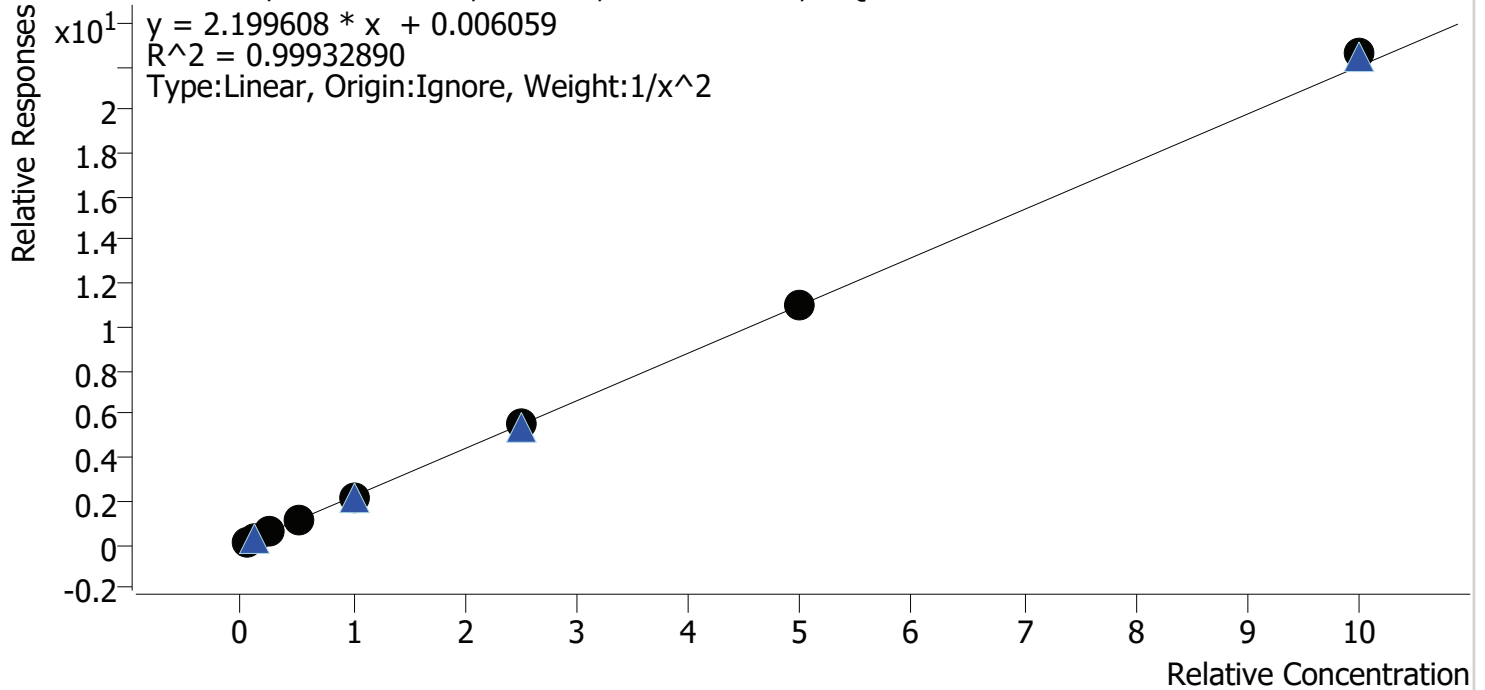


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	100.9
cal 2	2	✓	10.0	9.8	97.7
cal 3	3	✓	25.0	25.2	100.8
cal 4	4	✓	50.0	51.2	102.5
cal 5	5	✓	100.0	98.0	98.0
cal 6	6	✓	250.0	248.8	99.5
cal 7	7	✓	500.0	498.0	99.6
cal 8	8	✓	1000.0	1010.9	101.1

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\am 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte Sertraline **Internal Standard** Sertraline-D3

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

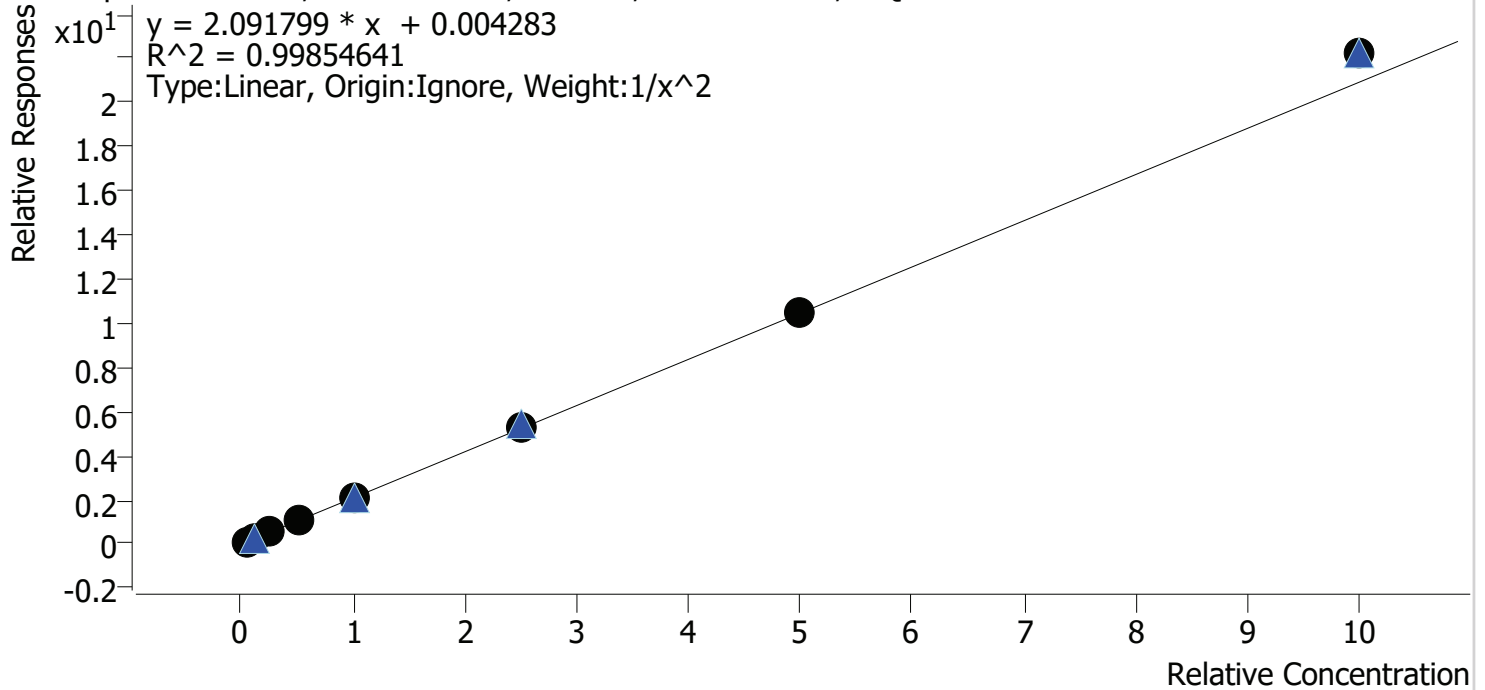


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.1	102.2
cal 2	2	✓	10.0	9.6	95.5
cal 3	3	✓	25.0	24.9	99.7
cal 4	4	✓	50.0	50.7	101.4
cal 5	5	✓	100.0	98.8	98.8
cal 6	6	✓	250.0	250.1	100.0
cal 7	7	✓	500.0	498.0	99.6
cal 8	8	✓	1000.0	1026.6	102.7

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte Temazepam **Internal Standard** Temazepam-D5

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

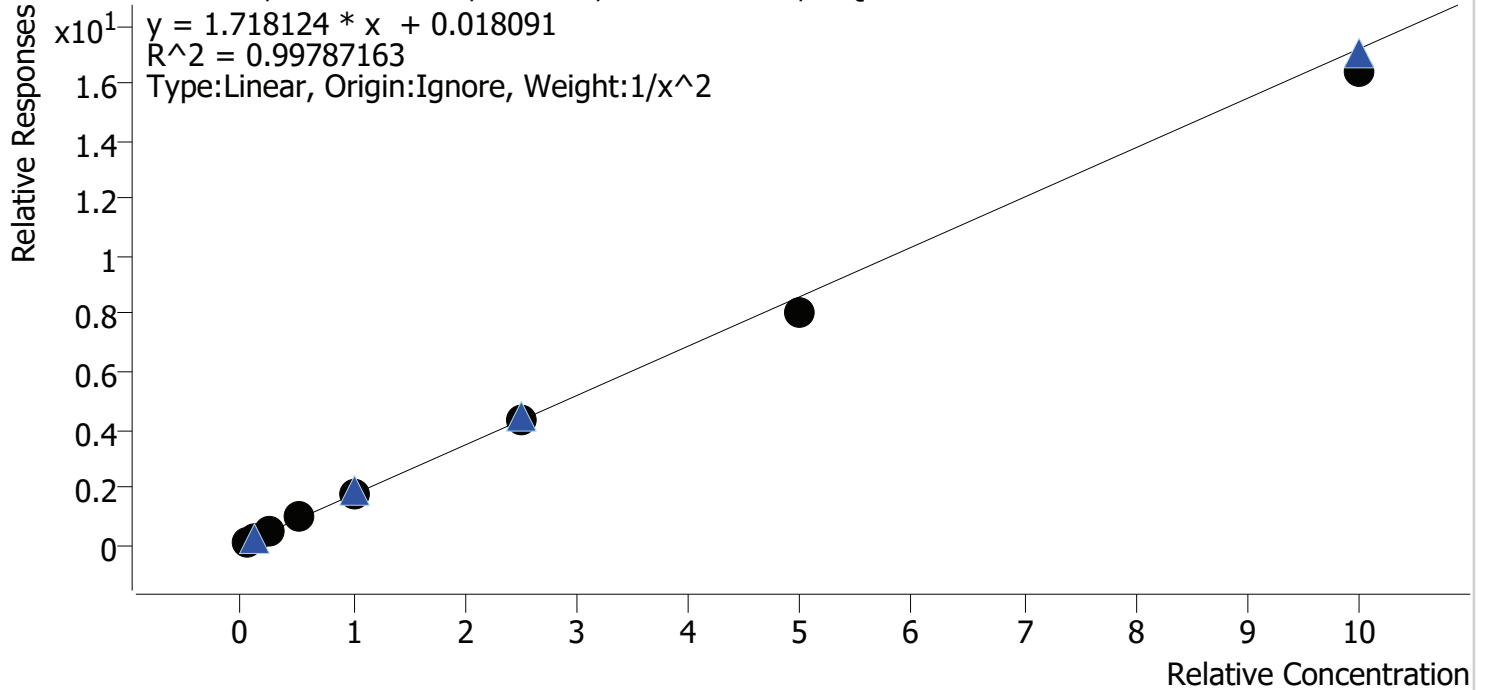


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.1	102.6
cal 2	2	✓	10.0	9.7	96.6
cal 3	3	✓	25.0	24.0	95.9
cal 4	4	✓	50.0	49.6	99.2
cal 5	5	✓	100.0	98.4	98.4
cal 6	6	✓	250.0	251.3	100.5
cal 7	7	✓	500.0	502.5	100.5
cal 8	8	✓	1000.0	1061.9	106.2

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 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

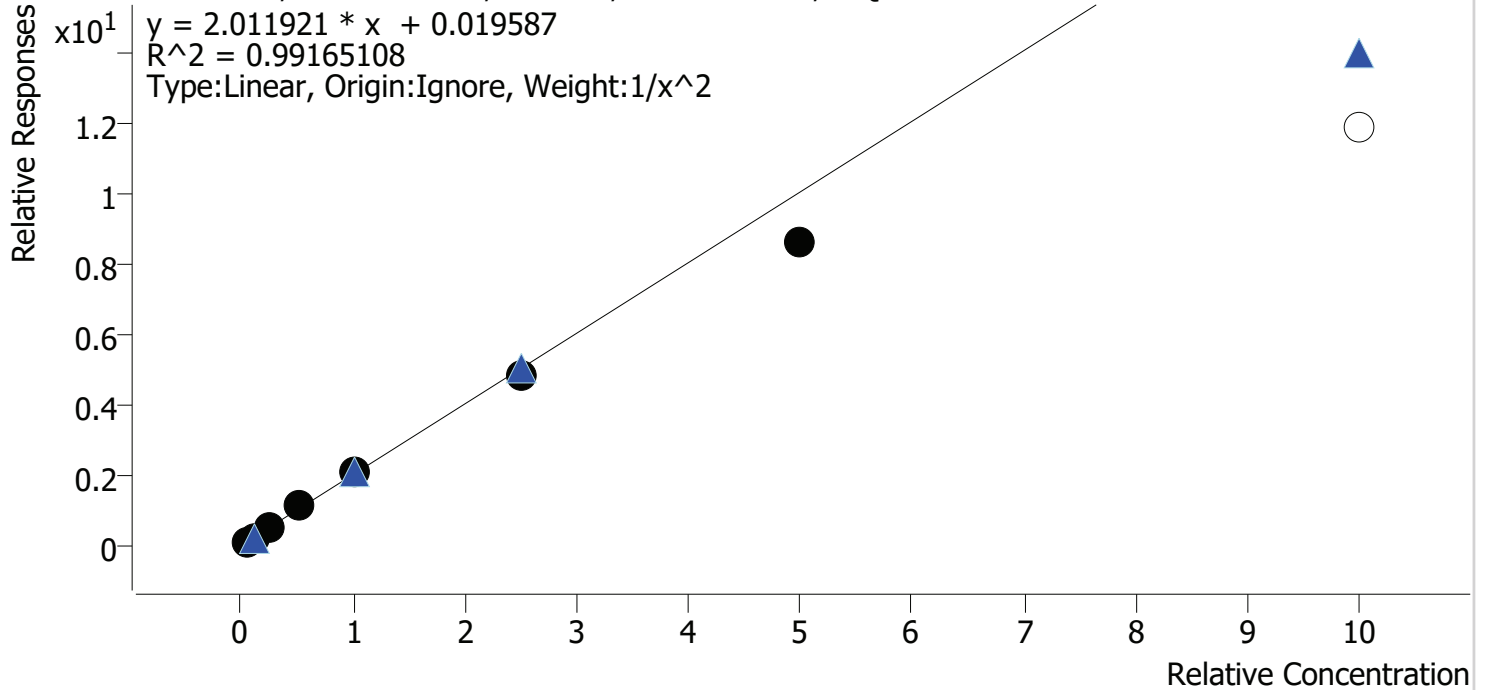


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	98.1
cal 2	2	✓	10.0	10.1	101.3
cal 3	3	✓	25.0	25.8	103.2
cal 4	4	✓	50.0	52.7	105.4
cal 5	5	✓	100.0	102.9	102.9
cal 6	6	✓	250.0	249.6	99.8
cal 7	7	✓	500.0	469.5	93.9
cal 8	8	✓	1000.0	953.2	95.3

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte Trazodone **Internal Standard** Trazodone-D6

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

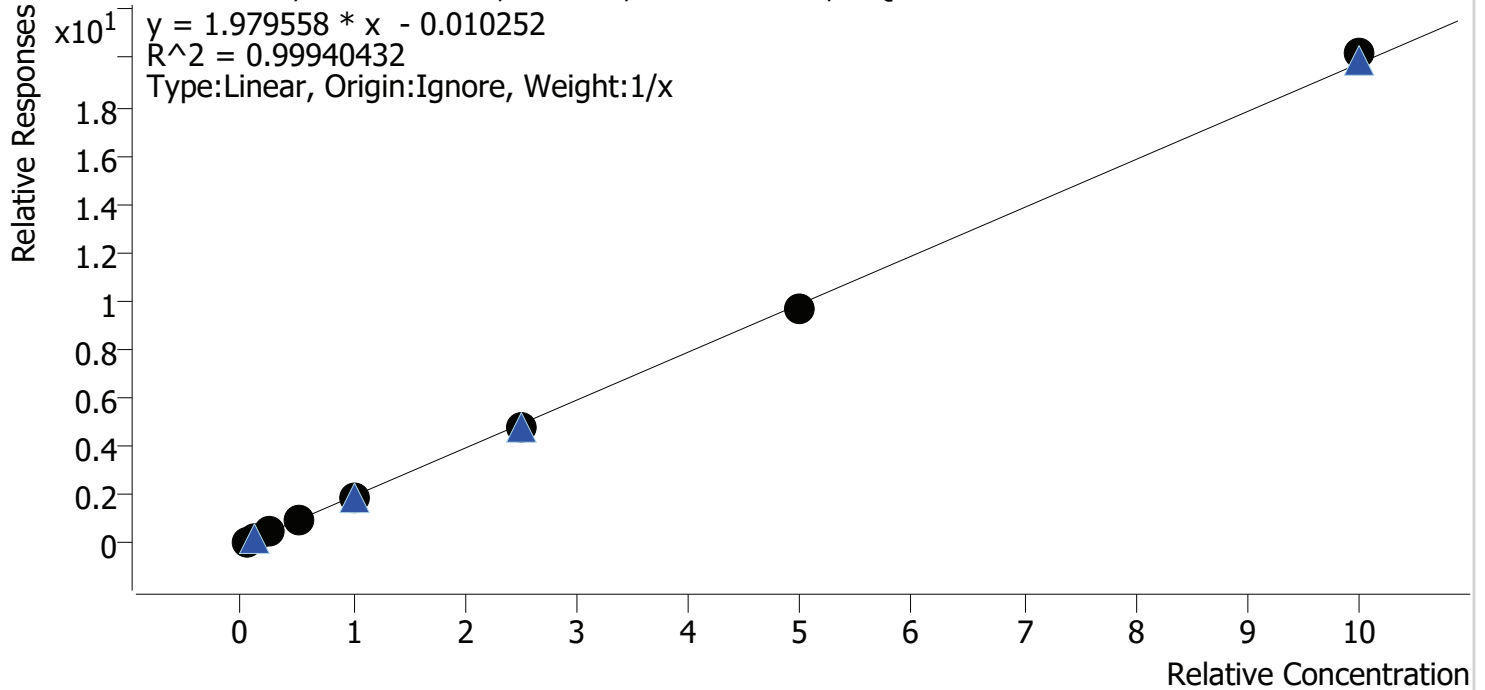


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.8	97.0
cal 2	2	✓	10.0	10.2	102.5
cal 3	3	✓	25.0	26.0	104.0
cal 4	4	✓	50.0	54.8	109.5
cal 5	5	✓	100.0	104.5	104.5
cal 6	6	✓	250.0	242.7	97.1
cal 7	7	✓	500.0	427.4	85.5
cal 8	8	×	1000.0	593.6	59.4

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte Venlafaxine **Internal Standard** Venlafaxine-D6

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

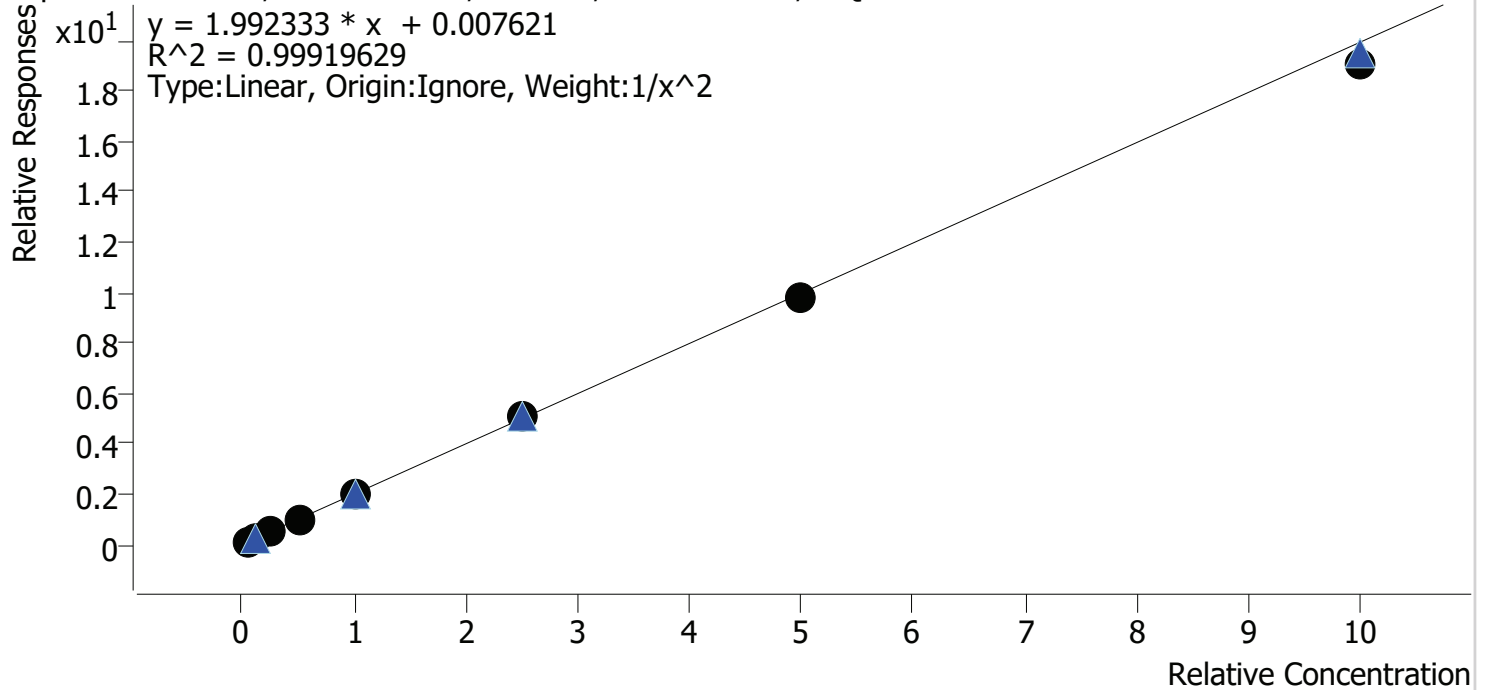


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.5	109.9
cal 2	2	✓	10.0	10.3	103.4
cal 3	3	✓	25.0	24.0	95.8
cal 4	4	✓	50.0	48.7	97.5
cal 5	5	✓	100.0	95.8	95.8
cal 6	6	✓	250.0	242.8	97.1
cal 7	7	✓	500.0	492.3	98.5
cal 8	8	✓	1000.0	1020.5	102.0

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\lam 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Last Cal. Update 1/16/2020 9:44 PM
Analyst Name ISP\datastor
Analyte Zolpidem **Internal Standard** Zolpidem-D6

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



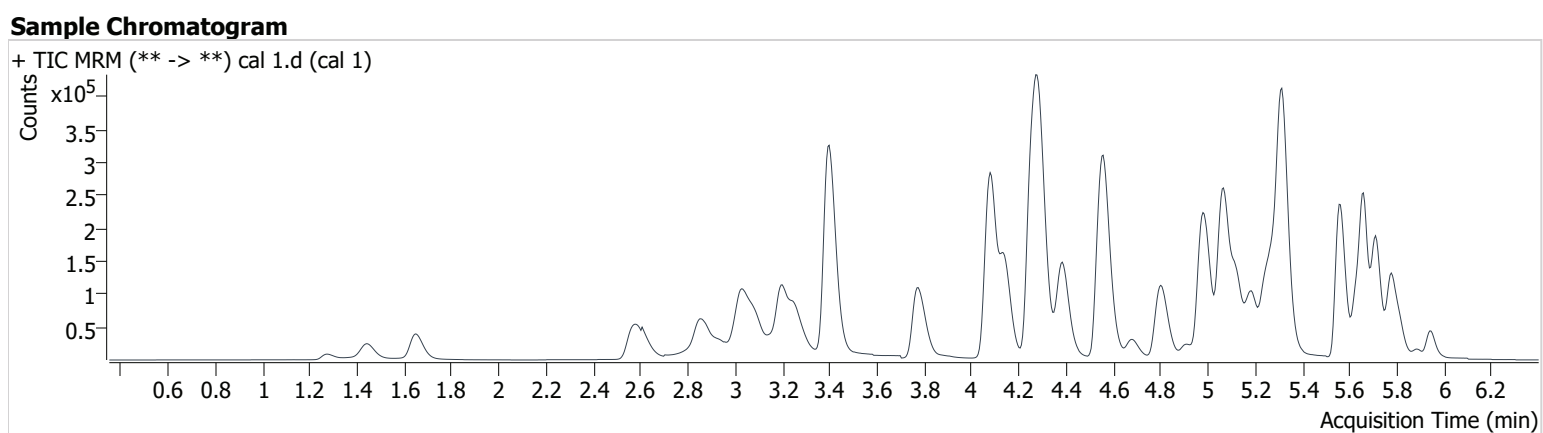
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	98.5
cal 2	2	✓	10.0	10.2	101.7
cal 3	3	✓	25.0	25.5	102.1
cal 4	4	✓	50.0	51.3	102.6
cal 5	5	✓	100.0	100.3	100.3
cal 6	6	✓	250.0	253.1	101.3
cal 7	7	✓	500.0	490.2	98.0
cal 8	8	✓	1000.0	955.0	95.5

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020 Data\am 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Calibration Last Update 1/22/2020 12:23:41 PM

Instrument	69679	Data File	cal 1.d
Type	Cal	Sample	cal 1
Acq. Method	mdq p1 cda 121818.m	Operator	Britany Wylie
Sample Position	P2-A6	Comment	
Injection Volume	2		
Acq. Date-Time	1/15/2020 7:00:00 PM		

Sample Info.



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.168	1143	2416.4	66.5	1196.9	59299	0.524 ng/ml
7-aminoclonazepam	4.297	15683	8271.5	76.9	15392.7	127102	4.845 ng/ml
a-hydroxyalprazolam	5.704	780	711.6	71.8	651.7	8108	4.668 ng/ml
alpha-PVP	4.397	49223	2005.7	53.8	404.2	420012	5.294 ng/ml
Alprazolam	5.777	15372	15116.3	102.7	9099.9	95748	5.452 ng/ml
Amphetamine	3.096	73650	436.4	53.8	228.6	243263	4.784 ng/ml
Benzoylcegonine	3.911	1284	288.5	8.5	115.6	8821	5.078 ng/ml
Buprenorphine	5.842	598	512.4	11.3 Low	61.3	36356	0.650 ng/ml
Bupropion	4.819	45852	1457.9	62.2	268.6	354867	5.015 ng/ml
Carisoprodol	5.728	11589	903.3	64.3	104.1	112760	5.055 ng/ml
Citalopram	5.251	32594	2315.3	41.0	14056.1	279099	5.111 ng/ml
Clonazepam	5.622	1910	393.8	26.1 Low	208.2	7017	4.825 ng/ml
Cocaine	4.291	43055	78948.1	44.6	6396.7	661950	5.085 ng/ml
Codeine	2.638	6479	3827.7	97.6	211.5	56830	4.954 ng/ml
Cyclobenzaprine	5.635	28802	498.2	10.6	5651.2	234573	5.001 ng/ml
Dextromethorphan	5.295	22003	216.2	76.7	21457.4	201114	5.062 ng/ml
Dextrorphan	4.146	16863	16008.5	208.1	18244.6	371798	5.163 ng/ml
Diazepam	5.947	10376	693.7	82.1	433.7	91249	4.926 ng/ml
Dihydrocodeine	2.606	16015	10511.1	68.4	10589.4	184013	4.836 ng/ml
Diphenhydramine	5.321	89148	2048.7	35.7	624.0	990346	5.465 ng/ml
Doxylamine	4.574	118928	167449.5	95.4	8526.5	996941	5.010 ng/ml
EDDP	5.290	6595	8070.6	255.7	932.1	155368	4.994 ng/ml
Fentanyl	5.148	3047	16.3	71.0	1471.3	348666	0.497 ng/ml
Fluoxetine	5.710	34937	9287.0	8.4	2543.0	285259	4.944 ng/ml
Hydrocodone	3.063	16247	364.9	43.2	35.4	197016	4.694 ng/ml
Hydromorphone	1.658	16488	1200.3	79.0	706.0	130002	5.118 ng/ml
Ketamine	4.092	39848	38486.3	34.9	271.2	369059	4.938 ng/ml
Lamotrigine	4.324	4171	252.3	89.7	3403.4	201114	5.094 ng/ml
Lorazepam	5.755	721	∞	54.1	12.5	95748	4.572 ng/ml
Meprobamate	4.937	7327	4143.1	29.9	2771.6	65929	4.866 ng/ml
Methadone	5.664	47565	3338.6	58.5	28723.2	485808	5.043 ng/ml
Methamphetamine	3.264	116210	34.8	38.4	107.9	401824	4.007 ng/ml
Metoprolol	4.344	10686	1131.8	99.3	925.6	996941	4.535 ng/ml

AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.681	62357	86029.6	48.4	1072.8	485808	5.205 ng/ml
Mitragynine	5.271	8039	8174.1	36.0	4175.9	485808	4.897 ng/ml
Morphine	1.282	3469	331.7	27.4	3873.2	5573	4.996 ng/ml
Norbuprenorphine	5.029	60	91.8	68.7 Low	54.3	5895	1.312 ng/ml
Nordiazepam	5.897	3564	3612.3	63.5	2162.6	24690	4.832 ng/ml
Norfentanyl	4.107	6764	267.8	43.3	42.8	602404	0.495 ng/ml
Norhydrocodone	3.105	757	7.9 Low	45.3	96.2	58752	5.383 ng/ml
Noroxycodone	2.952	11199	160.8	46.5	120.7	78292	5.046 ng/ml
O-desmethyl-tramadol	3.405	96828	10006.4	6.6	253.4	1043362	5.302 ng/ml
Oxazepam	5.758	1137	9.5 Low	71.0	14.8	14652	2.251 ng/ml
Oxycodone	2.884	25741	1014.0	34.0	1113.1	261934	4.682 ng/ml
Oxymorphone	1.450	12900	19834.8	49.4	74.6	98659	4.360 ng/ml
Phentermine	3.808	19018	37.7	5.7	32.4	403483	4.745 ng/ml
Promethazine	5.563	55881	7528.4	31.4	937.5	491116	5.405 ng/ml
Quetiapine	5.581	34505	6844.5	63.3	3470.8	95970	5.043 ng/ml
Sertraline	5.777	16816	18571.7	94.1	18074.8	141972	5.110 ng/ml
Temazepam	5.819	8847	299.8	27.6	48.5	79276	5.130 ng/ml
Tramadol	4.273	104213	426.4	3.6	123.2	1017882	4.906 ng/ml
Trazodone	5.250	39849	31466.8	80.3	33643.8	340121	4.850 ng/ml
Venlafaxine	5.068	77872	8371.4	37.6	505.9	790740	5.493 ng/ml
Zolpidem	5.006	80112	86945.1	29.4	25245.3	757945	4.923 ng/ml

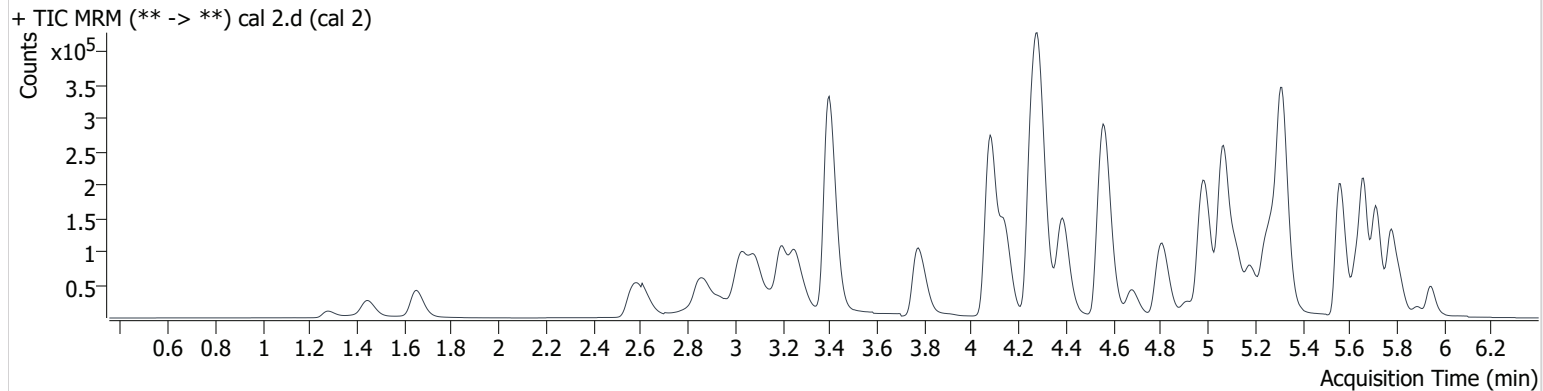
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AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020 Data\am 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Calibration Last Update 1/22/2020 12:23:41 PM

Instrument 69679 **Data File** cal 2.d
Type Cal **Sample** cal 2
Acq. Method mdq p1 cda 121818.m **Operator** Brittany Wylie
Sample Position P2-B6 **Comment**
Injection Volume 2
Acq. Date-Time 1/15/2020 7:10:50 PM
Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.168	1797	29.8	77.9	877.5	52523	0.936 ng/ml
7-aminoclonazepam	4.297	28246	37877.4	76.3	2701.4	119683	10.242 ng/ml
a-hydroxyalprazolam	5.699	1725	2275.1	50.6	690.2	7945	11.001 ng/ml
alpha-PVP	4.397	84873	1152.5	53.3	792.2	373394	10.073 ng/ml
Alprazolam	5.777	28039	1827.1	101.3	1343.7	86751	10.382 ng/ml
Amphetamine	3.096	127317	754.0	53.6	127.5	227782	10.427 ng/ml
Benzoylcegonine	3.906	2219	177.6	8.8	161.2	8268	9.759 ng/ml
Buprenorphine	5.837	767	72.3	15.4	110.4	27148	1.052 ng/ml
Bupropion	4.819	77950	4107.0	61.6	1997.8	313111	9.945 ng/ml
Carisoprodol	5.728	21050	13718.7	64.4	307.8	106077	9.739 ng/ml
Citalopram	5.251	44830	2073.6	41.8	21151.1	204596	9.769 ng/ml
Clonazepam	5.622	3401	3188.9	34.4	996.4	6491	10.037 ng/ml
Cocaine	4.291	70968	278589.7	46.8	37892.4	559348	10.040 ng/ml
Codeine	2.633	11097	57.7	95.5	465.0	49539	10.205 ng/ml
Cyclobenzaprine	5.635	42716	25955.3	10.3	1116.9	173709	10.220 ng/ml
Dextromethorphan	5.295	31333	33343.1	77.7	24518.9	151340	9.772 ng/ml
Dextrorphan	4.146	26284	69394.0	209.2	174.3	301549	10.032 ng/ml
Diazepam	5.947	18096	2324.6	86.3	1368.6	84866	9.764 ng/ml
Dihydrocodeine	2.601	28259	13917.9	73.3	434.8	169074	10.163 ng/ml
Diphenhydramine	5.321	131716	2469.0	35.2	14574.4	741151	10.226 ng/ml
Doxylamine	4.574	188826	5144.7	95.3	203285.1	812719	9.982 ng/ml
EDDP	5.279	10022	9297.0	240.8	304.6	118839	9.980 ng/ml
Fentanyl	5.138	4707	12.4	64.6	3288.2	251419	1.026 ng/ml
Fluoxetine	5.710	53367	38784.8	8.1	2741.8	218346	10.118 ng/ml
Hydrocodone	3.063	28011	546.7	43.2	218.2	173861	9.996 ng/ml
Hydromorphone	1.658	27978	4181.7	81.1	665.9	117433	9.658 ng/ml
Ketamine	4.092	71129	55361.6	34.6	248.3	343393	10.054 ng/ml
Lamotrigine	4.324	7627	710.3	85.3	655.4	151340	10.122 ng/ml
Lorazepam	5.750	1563	1419.3	65.2	11.1	86751	11.280 ng/ml
Meprobamate	4.937	13308	11594.5	29.7	46.9	63084	10.220 ng/ml
Methadone	5.664	69571	8061.3	56.0	2044.8	357079	10.185 ng/ml
Methamphetamine	3.264	148868	486.1	40.8	176.2	380486	8.589 ng/ml
Metoprolol	4.349	18914	30282.0	96.3	2686.9	812719	10.876 ng/ml

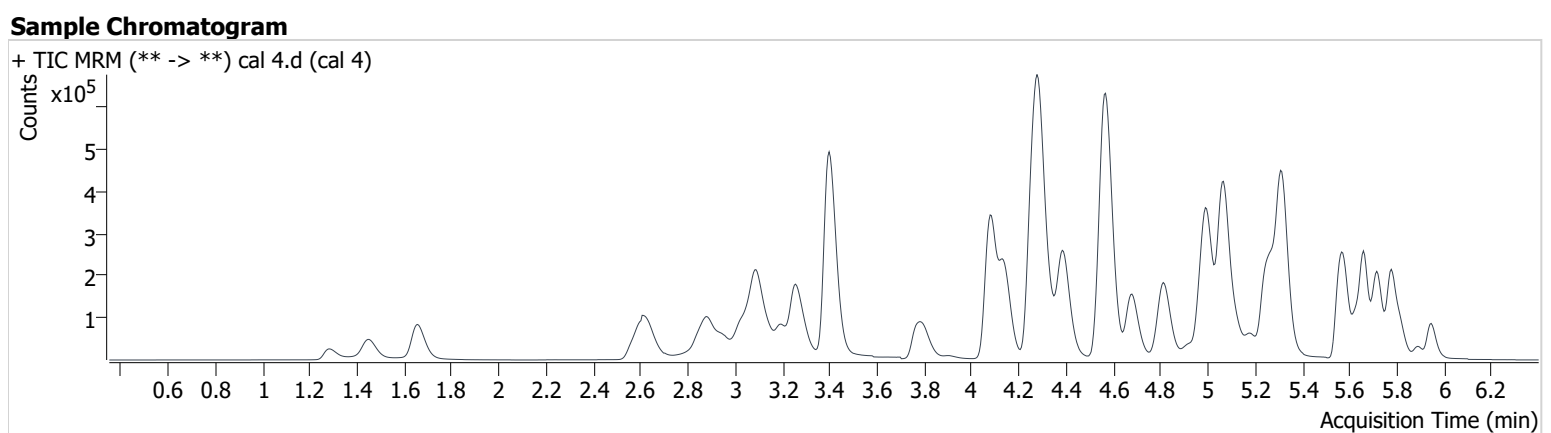
AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.681	88739	1572.8	49.2	24539.3	357079	9.411 ng/ml
Mitragynine	5.271	11002	2773.3	41.0	679.1	357079	10.230 ng/ml
Morphine	1.282	6004	31204.7	28.0	11970.0	5032	10.015 ng/ml
Norbuprenorphine	5.024	100	58.0	78.8 Low	111.5	4359	1.994 ng/ml
Nordiazepam	5.897	6865	11072.1	56.7	2302.8	22131	10.636 ng/ml
Norfentanyl	4.107	12003	1985.5	42.0	182.9	545480	1.008 ng/ml
Norhydrocodone	3.105	1297	272.6	49.2	50.7	51162	8.865 ng/ml
Noroxycodone	2.952	19216	737.1	48.8	706.4	70875	9.740 ng/ml
O-desmethyl-tramadol	3.405	180156	37698.9	6.6	425.2	977256	10.185 ng/ml
Oxazepam	5.758	2149	80.3	132.4 High	6.3 Low	12737	7.964 ng/ml
Oxycodone	2.879	44482	882.4	33.8	2232.5	236470	9.607 ng/ml
Oxymorphone	1.450	22808	18.1	49.9	19954.3	89963	9.654 ng/ml
Phentermine	3.808	35469	33.3	5.4	117.5	378192	10.512 ng/ml
Promethazine	5.563	80557	1008.2	32.7	359.9	370494	10.054 ng/ml
Quetiapine	5.581	49384	55024.4	63.6	16594.0	71683	9.765 ng/ml
Sertraline	5.783	24869	16517.6	98.9	25346.5	115027	9.554 ng/ml
Temazepam	5.819	15587	842.5	29.3	59.4	75507	9.664 ng/ml
Tramadol	4.273	181444	706.0	3.5	179.3	944670	10.126 ng/ml
Trazodone	5.245	56245	67.5	79.5	50546.3	249186	10.245 ng/ml
Venlafaxine	5.068	136469	1139.9	37.1	2135.2	701996	10.338 ng/ml
Zolpidem	5.000	136290	153107.7	28.5	37204.4	648034	10.174 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020 Data\am 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Calibration Last Update 1/22/2020 12:23:41 PM

Instrument 69679 **Data File** cal 4.d
Type Cal **Sample** cal 4
Acq. Method mdq p1 cda 121818.m **Operator** Britany Wylie
Sample Position P2-D6 **Comment**
Injection Volume 2
Acq. Date-Time 1/15/2020 7:32:26 PM
Sample Info.



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.168	8639	3540.4	71.1	12008.0	49466	4.817 ng/ml
7-aminoclonazepam	4.297	120767	199.4	76.9	51921.2	105138	53.978 ng/ml
a-hydroxyalprazolam	5.704	6798	455.2	58.3	252.1	7241	48.788 ng/ml
alpha-PVP	4.397	353359	2839.3	53.8	5352.8	314231	49.011 ng/ml
Alprazolam	5.777	126698	896.3	98.9	4074.5	79419	48.944 ng/ml
Amphetamine	3.096	412344	703.0	52.7	2148.0	164925	53.186 ng/ml
Benzoylcegonine	3.906	10187	14126.4	8.5	855.5	7686	50.035 ng/ml
Buprenorphine	5.836	2125	245.7	16.5	146.4	15968	4.612 ng/ml
Bupropion	4.819	293619	1187.8	62.0	1290.5	234608	51.226 ng/ml
Carisoprodol	5.728	97908	102493.7	61.5	994.7	94714	50.638 ng/ml
Citalopram	5.251	156082	6612.6	39.9	63970.8	141515	49.997 ng/ml
Clonazepam	5.622	16319	385.0	31.9	262.1	6193	53.770 ng/ml
Cocaine	4.291	337530	1070.1	45.6	17347.1	534331	50.494 ng/ml
Codeine	2.638	50665	865.3	96.8	25505.8	47029	50.944 ng/ml
Cyclobenzaprine	5.635	121723	3169.0	9.9	721.0	103351	49.718 ng/ml
Dextromethorphan	5.295	101121	26905.5	75.9	62114.3	96596	50.291 ng/ml
Dextrorphan	4.141	114432	280.5	215.4	416.5	266921	49.806 ng/ml
Diazepam	5.947	79873	7897.9	87.3	2528.8	74740	51.345 ng/ml
Dihydrocodeine	2.606	131727	30872.7	72.0	22071.6	159009	54.139 ng/ml
Diphenhydramine	5.321	468945	37188.2	35.2	17772.6	536025	48.072 ng/ml
Doxylamine	4.574	906447	1155.5	95.0	33816.0	790766	50.182 ng/ml
EDDP	5.284	33084	4676.9	256.2	5596.4	80414	48.922 ng/ml
Fentanyl	5.138	14388	1723.0	66.3	7667.9	155388	4.944 ng/ml
Fluoxetine	5.710	147488	16986.7	8.6	2615.6	121409	51.294 ng/ml
Hydrocodone	3.063	118817	837.5	47.9	1099.0	167541	46.950 ng/ml
Hydromorphone	1.658	132402	1740.2	79.4	1056.8	108163	49.833 ng/ml
Ketamine	4.087	314931	3689.9	35.3	2189.0	309281	51.898 ng/ml
Lamotrigine	4.319	32912	3713.5	86.5	2453.0	96596	59.341 ng/ml
Lorazepam	5.750	6362	234.2	68.3	95.3	79419	51.005 ng/ml
Meprobamate	4.937	58449	43562.3	29.8	517.2	57640	53.291 ng/ml
Methadone	5.664	223041	16190.2	57.5	3430.4	232163	50.818 ng/ml
Methamphetamine	3.258	355554	119.8	39.9	135.5	242371	56.887 ng/ml
Metoprolol	4.344	81927	1611.8	98.5	4946.3	790766	51.448 ng/ml

AM #28 Multi-Drug Quant. Results

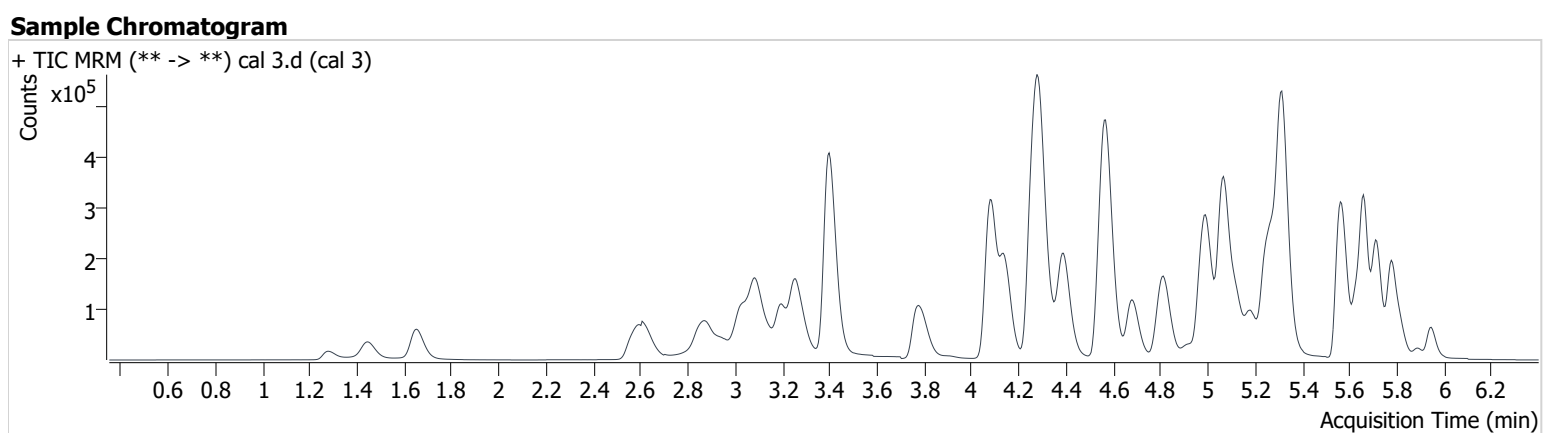
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.681	351968	12380.6	49.8	43147.1	232163	53.777 ng/ml
Mitragynine	5.271	32893	33984.2	37.1	2941.6	232163	51.688 ng/ml
Morphine	1.287	26583	146230.6	27.3	96.0	4496	51.526 ng/ml
Norbuprenorphine	5.014	216	108.7	142.9 High	159.7	2862	4.830 ng/ml
Nordiazepam	5.897	31824	23425.0	56.1	6401.4	21473	51.652 ng/ml
Norfentanyl	4.107	53012	11810.5	40.5	187.2	485770	5.157 ng/ml
Norhydrocodone	3.100	8100	54.1	40.8	584.9	49493	47.504 ng/ml
Noroxycodone	2.956	90050	972.4	46.1	410.3	64832	50.706 ng/ml
O-desmethyl-tramadol	3.400	820163	82929.6	6.4	3600.4	890907	49.457 ng/ml
Oxazepam	5.758	9105	4677.4	66.6	146.5	10564	51.456 ng/ml
Oxycodone	2.884	220333	1521.0	33.0	1440.7	224438	53.113 ng/ml
Oxymorphone	1.450	102683	510479.8	49.3	344262.3	81098	53.318 ng/ml
Phentermine	3.808	128697	164.7	5.5	291.9	287990	54.161 ng/ml
Promethazine	5.563	232899	130917.8	32.2	5525.0	214928	48.904 ng/ml
Quetiapine	5.580	200354	5112.6	60.5	413.7	55936	51.235 ng/ml
Sertraline	5.782	68597	90631.4	94.0	63556.4	61176	50.702 ng/ml
Temazepam	5.819	67573	2803.9	29.3	397.2	64847	49.611 ng/ml
Tramadol	4.268	790462	371.7	3.5	5175.8	855674	52.714 ng/ml
Trazodone	5.245	207172	19823.9	77.5	148297.4	184778	54.754 ng/ml
Venlafaxine	5.068	588863	44030.3	36.9	1308.2	616881	48.740 ng/ml
Zolpidem	5.000	658592	482265.4	29.2	238793.7	639487	51.309 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020 Data\am 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Calibration Last Update 1/22/2020 12:23:41 PM

Instrument	69679	Data File	cal 3.d
Type	Cal	Sample	cal 3
Acq. Method	mdq p1 cda 121818.m	Operator	Britany Wylie
Sample Position	P2-C6	Comment	
Injection Volume	2		
Acq. Date-Time	1/15/2020 7:21:37 PM		

Sample Info.



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.168	4659	10215.5	71.1	7108.6	54493	2.353 ng/ml
7-aminoclonazepam	4.302	66720	34561.7	76.5	990.9	117114	26.233 ng/ml
a-hydroxyalprazolam	5.704	3964	4228.4	56.7	978.7	7467	27.430 ng/ml
alpha-PVP	4.397	214514	39922.8	53.0	1861.0	379458	24.742 ng/ml
Alprazolam	5.777	68045	1156.2	101.7	2068.2	86931	24.313 ng/ml
Amphetamine	3.096	293659	1648.7	52.4	480.8	224190	26.967 ng/ml
Benzoylcegonine	3.911	5451	6091.1	8.9	36.1	8172	24.949 ng/ml
Buprenorphine	5.836	1807	822.6	18.6	545.1	27844	2.296 ng/ml
Bupropion	4.824	200531	44268.5	61.9	537.6	330864	24.650 ng/ml
Carisoprodol	5.728	52383	143912.8	61.4	1094.3	101977	25.174 ng/ml
Citalopram	5.251	136755	11193.9	39.8	49887.7	241515	25.568 ng/ml
Clonazepam	5.622	7552	7335.7	37.8	2324.9	6417	23.567 ng/ml
Cocaine	4.291	190163	236150.0	45.8	112585.1	612467	24.754 ng/ml
Codeine	2.633	27760	3319.0	99.6	2348.6	52452	24.778 ng/ml
Cyclobenzaprine	5.635	115870	64478.8	9.9	1813.4	196579	24.781 ng/ml
Dextromethorphan	5.295	90496	30909.2	75.1	79660.4	174541	24.799 ng/ml
Dextrorphan	4.146	71267	70614.2	211.8	212573.5	332986	24.805 ng/ml
Diazepam	5.947	43302	1027.1	87.2	34392.7	82084	25.041 ng/ml
Dihydrocodeine	2.601	72518	43200.4	70.9	668.5	174064	26.753 ng/ml
Diphenhydramine	5.321	386776	2799.7	34.4	4341.1	872337	24.648 ng/ml
Doxylamine	4.574	525556	175433.8	95.3	2999.4	922716	24.816 ng/ml
EDDP	5.284	27342	24642.1	232.5	95634.2	127614	25.448 ng/ml
Fentanyl	5.138	13570	2083.0	67.2	12362.3	298206	2.447 ng/ml
Fluoxetine	5.715	142416	200429.3	8.4	17268.2	241542	24.765 ng/ml
Hydrocodone	3.063	73496	514.8	42.9	759.9	184404	26.006 ng/ml
Hydromorphone	1.658	71121	202863.5	80.2	1899.2	119603	24.182 ng/ml
Ketamine	4.087	176174	111976.8	34.8	576.6	346889	25.568 ng/ml
Lamotrigine	4.324	18508	729.4	84.3	9755.6	174541	19.555 ng/ml
Lorazepam	5.750	3825	2631.7	54.5	46.3	86931	27.907 ng/ml
Meprobamate	4.932	31982	43555.8	29.4	4136.9	63237	26.030 ng/ml
Methadone	5.664	198410	3225.6	57.3	123580.4	422366	24.771 ng/ml
Methamphetamine	3.258	284281	353.3	42.6	169.2	366357	25.862 ng/ml
Metoprolol	4.349	46972	1016.0	96.0	1384.2	922716	24.833 ng/ml

AM #28 Multi-Drug Quant. Results

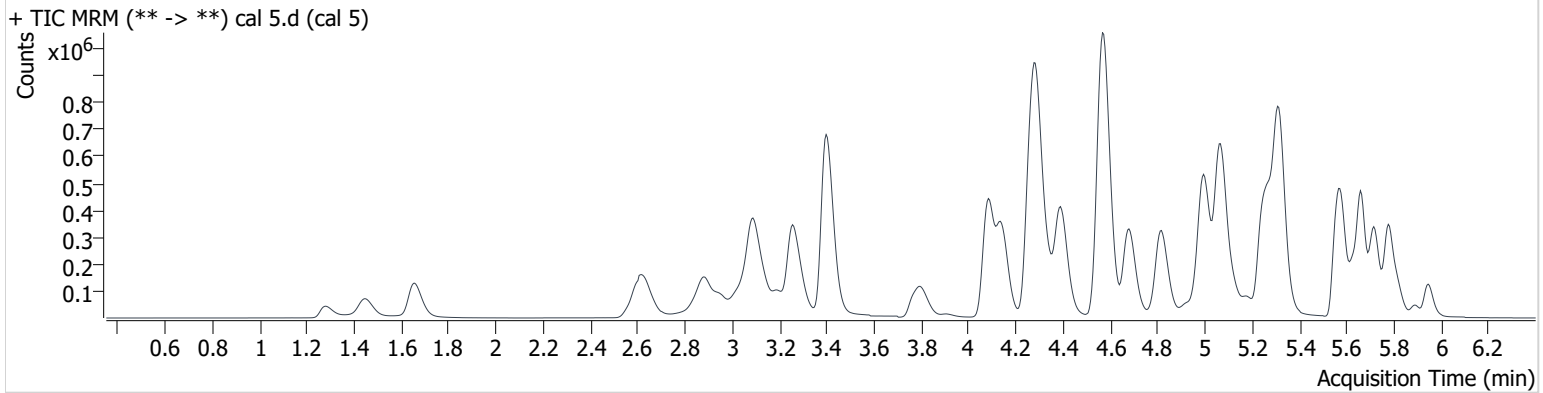
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.681	265857	180607.8	49.9	203641.0	422366	22.744 ng/ml
Mitragynine	5.271	30396	1394.1	36.9	9487.7	422366	25.619 ng/ml
Morphine	1.282	14507	386.8	28.9	17621.6	5087	24.600 ng/ml
Norbuprenorphine	5.029	307	166.2	71.5 Low	37.0	4721	4.259 ng/ml
Nordiazepam	5.897	15943	16297.0	57.4	11219.2	22152	24.968 ng/ml
Norfentanyl	4.107	29995	239.6	40.8	140.5	558019	2.520 ng/ml
Norhydrocodone	3.100	4037	315.7	40.5	520.0	54177	22.598 ng/ml
Noroxycodone	2.952	49430	1305.5	46.1	542.2	71409	25.171 ng/ml
O-desmethyl-tramadol	3.405	445344	37738.7	6.5	942.4	976906	24.669 ng/ml
Oxazepam	5.758	4946	180.1	73.4	61.8	11968	23.305 ng/ml
Oxycodone	2.879	116466	812.2	32.5	959.2	242116	25.666 ng/ml
Oxymorphone	1.445	54665	3495.5	50.6	128889.5	88368	25.396 ng/ml
Phentermine	3.808	84815	185.7	5.4	130.3	374455	26.918 ng/ml
Promethazine	5.558	227037	182953.6	31.3	649.9	421632	24.453 ng/ml
Quetiapine	5.581	150710	440.3	60.2	2390.2	85319	25.211 ng/ml
Sertraline	5.782	65665	43642.0	95.6	59775.1	118406	24.937 ng/ml
Temazepam	5.819	36295	1215.3	29.1	198.2	71733	23.984 ng/ml
Tramadol	4.273	446543	34660.8	3.4	237.3	967442	25.812 ng/ml
Trazodone	5.245	164330	139105.5	81.2	164683.6	302686	26.011 ng/ml
Venlafaxine	5.068	349118	23427.8	36.8	1700.5	752287	23.961 ng/ml
Zolpidem	5.000	361410	215.8	29.6	121044.0	700177	25.525 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020 Data\am 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Calibration Last Update 1/22/2020 12:23:41 PM

Instrument	69679	Data File	cal 5.d
Type	Cal	Sample	cal 5
Acq. Method	mdq p1 cda 121818.m	Operator	Britany Wylie
Sample Position	P2-E6	Comment	
Injection Volume	2		
Acq. Date-Time	1/15/2020 7:43:15 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.168	16207	37837.1	74.3	19368.8	45292	9.879 ng/ml
7-aminoclonazepam	4.297	198460	7014.7	76.8	71986.3	89881	104.745 ng/ml
a-hydroxyalprazolam	5.704	12285	2709.2	61.7	847.6	6328	101.284 ng/ml
alpha-PVP	4.397	695678	8298.4	53.3	4578.8	308780	97.984 ng/ml
Alprazolam	5.777	220751	1181.0	101.1	3901.4	71361	94.357 ng/ml
Amphetamine	3.096	815163	1127.5	52.4	667.9	170545	103.397 ng/ml
Benzoylcegonine	3.911	18111	2493.2	7.9	1413.3	7362	93.265 ng/ml
Buprenorphine	5.837	4845	1021.6	17.8	180.0	18034	9.216 ng/ml
Bupropion	4.819	613118	6155.0	61.3	1781.6	251454	100.090 ng/ml
Carisoprodol	5.728	169419	42720.9	62.3	1670.8	84126	98.630 ng/ml
Citalopram	5.251	348957	251.5	40.7	214.5	159237	99.542 ng/ml
Clonazepam	5.622	27184	31070.1	34.5	6343.3	5423	103.031 ng/ml
Cocaine	4.291	613515	2338.7	45.6	264082.3	500538	98.097 ng/ml
Codeine	2.638	90099	6814.3	98.4	6527.0	43694	97.956 ng/ml
Cyclobenzaprine	5.635	289052	5807.4	9.9	3539.9	123130	99.301 ng/ml
Dextromethorphan	5.295	231021	746.4	74.4	4872.4	111502	99.748 ng/ml
Dextrorphan	4.146	224463	246237.8	216.4	398445.8	265703	98.259 ng/ml
Diazepam	5.947	139968	10265.6	86.4	4353.3	67587	100.062 ng/ml
Dihydrocodeine	2.606	244311	32544.4	71.1	36231.3	150535	106.975 ng/ml
Diphenhydramine	5.321	1047217	3768.9	34.8	13334.2	592461	96.534 ng/ml
Doxylamine	4.574	1757023	105941.4	94.2	134021.4	774289	99.573 ng/ml
EDDP	5.284	82252	2482.7	238.9	20826.6	95871	102.081 ng/ml
Fentanyl	5.138	34560	19967.9	66.5	12052.7	191707	9.594 ng/ml
Fluoxetine	5.715	327261	15963.3	8.4	28130.9	140188	98.803 ng/ml
Hydrocodone	3.063	244797	366.9	33.4	682.3	157055	104.227 ng/ml
Hydromorphone	1.658	243226	25587.0	79.0	83243.9	97631	101.472 ng/ml
Ketamine	4.087	586351	3128.9	35.0	8629.5	291200	103.244 ng/ml
Lamotrigine	4.319	57680	2635.8	88.6	586.1	111502	89.278 ng/ml
Lorazepam	5.750	10870	9835.0	61.5	65.0	71361	97.206 ng/ml
Meprobamate	4.932	103140	112257.7	30.5	5378.5	52791	103.691 ng/ml
Methadone	5.664	505311	581641.4	58.3	165985.7	276481	96.813 ng/ml
Methamphetamine	3.258	713367	432.6	40.1	597.2	267827	110.611 ng/ml
Metoprolol	4.349	152060	214265.9	96.7	8063.6	774289	98.308 ng/ml

AM #28 Multi-Drug Quant. Results

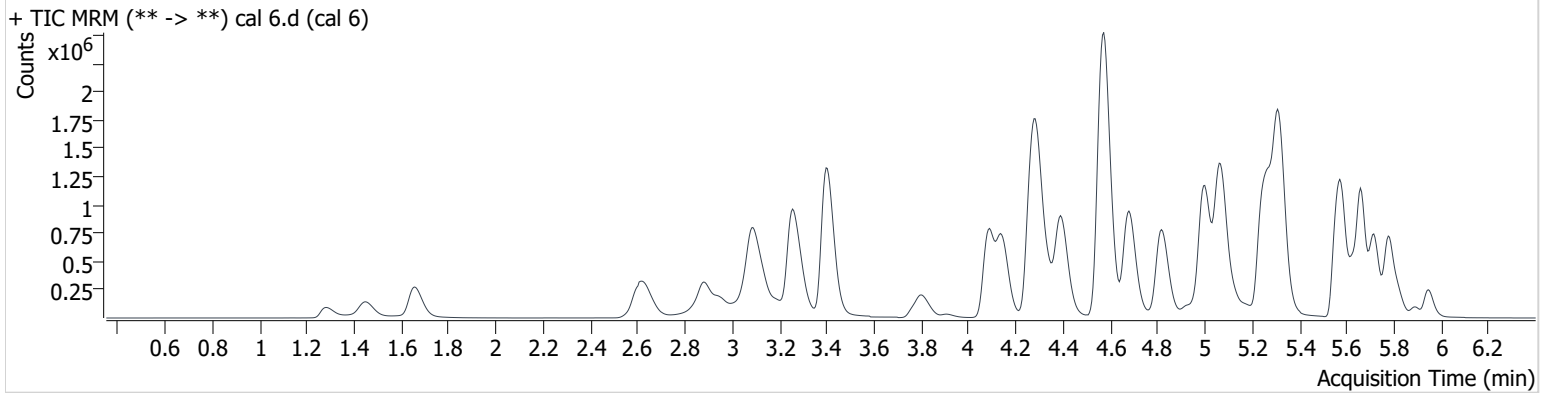
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.681	765259	138287.0	49.8	6353.9	276481	97.594 ng/ml
Mitragynine	5.271	77575	3471.8	36.7	196.2	276481	103.628 ng/ml
Morphine	1.282	48729	116299.6	27.5	82021.5	4265	100.000 ng/ml
Norbuprenorphine	5.019	588	458.7	102.7	80.5	3191	10.700 ng/ml
Nordiazepam	5.897	55343	67942.9	55.3	48126.8	19634	98.434 ng/ml
Norfentanyl	4.107	97134	14572.9	40.9	1642.4	451223	10.212 ng/ml
Norhydrocodone	3.105	17061	114.4	41.4	51.8	47501	102.117 ng/ml
Noroxycodone	2.952	163265	8653.4	46.2	1238.5	59512	100.342 ng/ml
O-desmethyl-tramadol	3.405	1513966	243544.9	6.5	8135.5	843417	96.101 ng/ml
Oxazepam	5.758	14441	318.0	72.8	243.0	8936	98.764 ng/ml
Oxycodone	2.884	400672	5650.9	33.1	1107.3	213771	102.047 ng/ml
Oxymorphone	1.445	186103	588632.0	49.6	384075.2	75514	104.988 ng/ml
Phentermine	3.808	255027	592.8	5.4	286.3	294788	105.863 ng/ml
Promethazine	5.558	551328	661944.8	31.6	13672.5	254478	97.473 ng/ml
Quetiapine	5.581	426232	744.2	61.9	158679.7	62297	97.968 ng/ml
Sertraline	5.783	148511	47591.9	94.7	76364.7	68137	98.814 ng/ml
Temazepam	5.819	119441	5361.9	29.2	860.7	57926	98.369 ng/ml
Tramadol	4.268	1459737	445873.6	3.5	494.5	817545	102.869 ng/ml
Trazodone	5.245	455744	30944.3	79.8	89794.3	214867	104.451 ng/ml
Venlafaxine	5.068	1146184	102797.1	37.4	13339.2	607804	95.781 ng/ml
Zolpidem	5.000	1208707	65728.7	29.2	121448.2	602632	100.289 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020 Data\am 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Calibration Last Update 1/22/2020 12:23:41 PM

Instrument	69679	Data File	cal 6.d
Type	Cal	Sample	cal 6
Acq. Method	mdq p1 cda 121818.m	Operator	Britany Wylie
Sample Position	P2-F6	Comment	
Injection Volume	2		
Acq. Date-Time	1/15/2020 7:54:02 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.168	39666	1699.6	72.8	2074.2	44509	24.618 ng/ml
7-aminoclonazepam	4.297	335160	45130.1	79.5	12912.3	65281	244.967 ng/ml
a-hydroxyalprazolam	5.699	27422	2482.0	60.2	144.3	5931	241.698 ng/ml
alpha-PVP	4.397	1781191	3098.5	53.2	35974.8	315763	245.014 ng/ml
Alprazolam	5.777	512446	1530.0	99.3	9926.0	63987	243.350 ng/ml
Amphetamine	3.096	1992781	988.2	50.9	14358.6	177909	244.837 ng/ml
Benzoylcegonine	3.911	51399	76267.4	7.8	5871.5	7950	245.899 ng/ml
Buprenorphine	5.837	14449	695.9	17.0	680.2	19190	25.667 ng/ml
Bupropion	4.819	1661401	3956.1	61.1	2024.2	269279	253.734 ng/ml
Carisoprodol	5.728	373521	225274.0	61.6	1104.8	72982	250.620 ng/ml
Citalopram	5.251	956487	125746.5	40.8	648.6	176498	246.462 ng/ml
Clonazepam	5.622	62367	18570.8	33.7	10185.2	4827	266.846 ng/ml
Cocaine	4.291	1471035	2710.7	45.8	48757.2	472013	249.620 ng/ml
Codeine	2.638	204959	963.8	98.3	3426.6	39729	245.803 ng/ml
Cyclobenzaprine	5.635	823945	1088183.2	9.6	1692.7	140351	248.629 ng/ml
Dextromethorphan	5.290	644427	129805.3	76.3	10344.0	123035	252.493 ng/ml
Dextrorphan	4.146	586865	477954.2	214.0	749476.2	274418	248.923 ng/ml
Diazepam	5.947	332039	3097.8	85.4	6685.7	64204	250.781 ng/ml
Dihydrocodeine	2.601	576732	1033.9	71.6	31973.0	151906	251.525 ng/ml
Diphenhydramine	5.321	2935518	46958.3	34.5	14532.3	658893	242.438 ng/ml
Doxylamine	4.574	4613143	453737.6	95.4	799226.7	805489	251.669 ng/ml
EDDP	5.284	285730	2564.4	245.8	5939.2	136580	249.004 ng/ml
Fentanyl	5.138	111914	215.4	65.0	2438.2	232034	25.612 ng/ml
Fluoxetine	5.710	930295	6939.8	8.5	71610.7	157211	250.839 ng/ml
Hydrocodone	3.058	617265	2657.1	42.2	1753.1	157597	263.219 ng/ml
Hydromorphone	1.658	599320	14977.2	78.9	9297.8	99653	245.030 ng/ml
Ketamine	4.092	1454886	1886272.1	34.8	1003.6	294184	254.495 ng/ml
Lamotrigine	4.324	123317	2346.2	88.0	15845.3	123035	171.498 ng/ml
Lorazepam	5.750	23204	22161.9	62.4	286.4	63987	231.752 ng/ml
Meprobamate	4.932	239442	205994.6	30.2	8400.1	51304	249.212 ng/ml
Methadone	5.664	1521287	20124.1	57.1	49792.9	323624	249.245 ng/ml
Methamphetamine	3.258	2112712	6418.1	40.0	814.6	334791	274.358 ng/ml
Metoprolol	4.349	340185	171325.2	98.1	1744.0	805489	212.424 ng/ml

AM #28 Multi-Drug Quant. Results

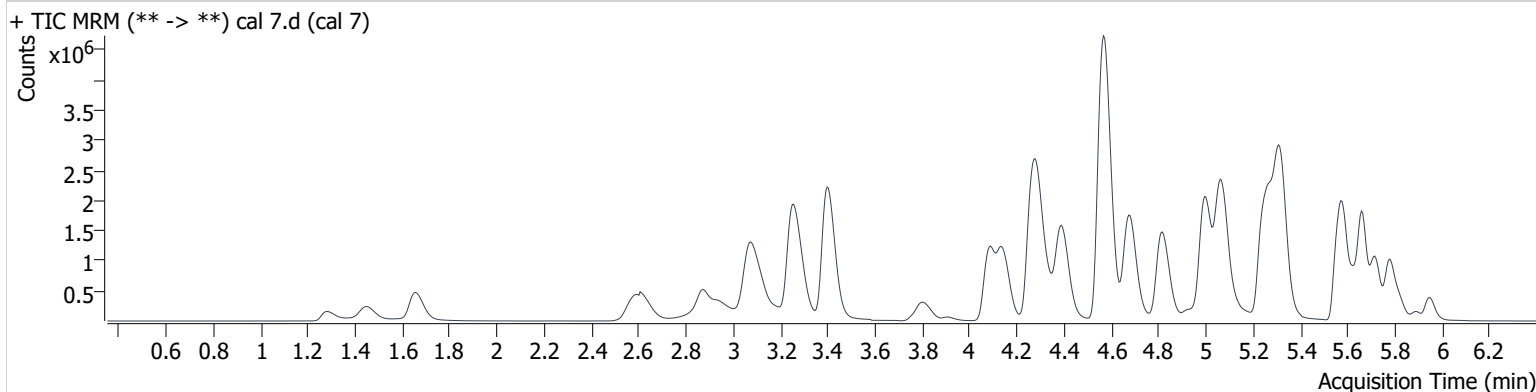
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.681	2247941	3517.5	49.4	55175.2	323624	243.844 ng/ml
Mitragynine	5.271	217765	183617.0	38.2	84789.1	323624	250.328 ng/ml
Morphine	1.282	114897	194844.6	28.0	8661.0	3945	255.691 ng/ml
Norbuprenorphine	5.024	1623	1102.2	88.7	1105.3	3568	25.280 ng/ml
Nordiazepam	5.897	130354	24750.2	56.1	62028.7	18398	247.759 ng/ml
Norfentanyl	4.107	231402	2737.9	40.5	343.7	436613	25.199 ng/ml
Norhydrocodone	3.105	50368	215.1	41.5	764.8	48749	290.419 ng/ml
Noroxycodone	2.952	380725	2677.4	47.7	984.9	55905	249.382 ng/ml
O-desmethyl-tramadol	3.405	3834127	3228.0	6.4	15462.9	837636	244.510 ng/ml
Oxazepam	5.758	29997	737.1	70.5	223.2	7137	261.062 ng/ml
Oxycodone	2.879	990324	1329.6	33.0	4124.5	214668	252.201 ng/ml
Oxymorphone	1.450	438298	674191.2	50.0	23734.9	72022	261.127 ng/ml
Phentermine	3.808	632872	1075.2	5.1	714.2	306795	253.922 ng/ml
Promethazine	5.558	1628348	2772979.6	32.3	20150.9	297056	246.162 ng/ml
Quetiapine	5.581	1220676	2900.9	60.2	664901.9	70306	248.778 ng/ml
Sertraline	5.783	382092	93959.8	94.9	567967.1	69379	250.103 ng/ml
Temazepam	5.819	288866	5375.0	29.7	1081.9	54897	251.348 ng/ml
Tramadol	4.268	3494939	983.7	3.5	3445.2	811467	249.624 ng/ml
Trazodone	5.245	1331072	280877.6	79.8	155179.0	271546	242.666 ng/ml
Venlafaxine	5.068	2928899	414360.4	36.9	2770.6	610561	242.848 ng/ml
Zolpidem	5.000	3122365	238120.3	29.1	434.2	618155	253.145 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020 Data\am 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Calibration Last Update 1/22/2020 12:23:41 PM

Instrument	69679	Data File	cal 7.d
Type	Cal	Sample	cal 7
Acq. Method	mdq p1 cda 121818.m	Operator	Britany Wylie
Sample Position	P2-G6	Comment	
Injection Volume	2		
Acq. Date-Time	1/15/2020 8:04:50 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.168	76329	4884.2	72.9	1356.0	40160	52.512 ng/ml
7-aminoclonazepam	4.297	434669	9076.0	75.1	737.2	43778	474.739 ng/ml
a-hydroxyalprazolam	5.704	48440	1472.6	59.8	346.6	5392	469.988 ng/ml
alpha-PVP	4.392	3435329	3235.9	52.9	2809.8	300635	496.117 ng/ml
Alprazolam	5.777	860309	2188.7	98.2	923.1	53304	489.831 ng/ml
Amphetamine	3.081	3433985	4526.4	51.2	1581.5	178276	422.394 ng/ml
Benzoylcegonine	3.906	106107	148886.3	8.3	7671.7	7905	511.027 ng/ml
Buprenorphine	5.837	25490	1550.9	15.9	6794.1	14960	57.966 ng/ml
Bupropion	4.819	3357825	6937.1	61.1	11512.9	278527	496.081 ng/ml
Carisoprodol	5.728	617492	829700.1	62.2	10696.4	61704	490.016 ng/ml
Citalopram	5.246	1490348	352120.0	40.3	697396.3	137410	493.470 ng/ml
Clonazepam	5.622	108203	1550.2	34.8	18774.4	4659	480.317 ng/ml
Cocaine	4.291	2543427	8970.9	45.5	809863.9	409504	497.603 ng/ml
Codeine	2.623	361307	828.4	97.7	50454.1	33283	517.773 ng/ml
Cyclobenzaprine	5.630	1273334	66018.9	9.8	13677.8	107404	502.308 ng/ml
Dextromethorphan	5.295	991009	20910.2	77.1	136672.1	95429	500.826 ng/ml
Dextrorphan	4.146	1064987	148811.6	217.7	227138.2	250723	494.531 ng/ml
Diazepam	5.947	571192	4228.8	85.5	3427.9	54595	507.953 ng/ml
Dihydrocodeine	2.581	1066908	2982.1	71.3	46962.1	146111	484.636 ng/ml
Diphenhydramine	5.321	4983995	249903.5	34.3	27893.4	553715	489.214 ng/ml
Doxylamine	4.569	9203505	803685.8	93.9	379145.8	803804	503.385 ng/ml
EDDP	5.284	762415	738715.1	242.7	12457.6	184467	491.997 ng/ml
Fentanyl	5.138	196898	10084.6	66.2	5389.5	203085	51.450 ng/ml
Fluoxetine	5.710	1362389	595840.2	8.4	94154.2	117340	492.412 ng/ml
Hydrocodone	3.058	1115934	684.4	44.2	1415.1	149546	502.270 ng/ml
Hydromorphone	1.658	1114761	31482.4	79.5	8384.5	93411	486.271 ng/ml
Ketamine	4.087	2655952	1635.2	34.9	20129.8	280779	487.347 ng/ml
Lamotrigine	4.319	186996	2948.6	88.4	2340.6	95429	333.780 ng/ml
Lorazepam	5.750	37894	38770.1	63.1	582.6	53304	454.564 ng/ml
Meprobamate	4.932	423465	626450.5	30.8	30688.2	47245	479.623 ng/ml
Methadone	5.664	2680371	296902.3	56.8	149644.4	285834	497.358 ng/ml
Methamphetamine	3.260	4557983	5805.6	40.3	4044.9	398726	504.276 ng/ml
Metoprolol	4.349	544323	6902.7	97.9	11675.9	803804	341.137 ng/ml

AM #28 Multi-Drug Quant. Results

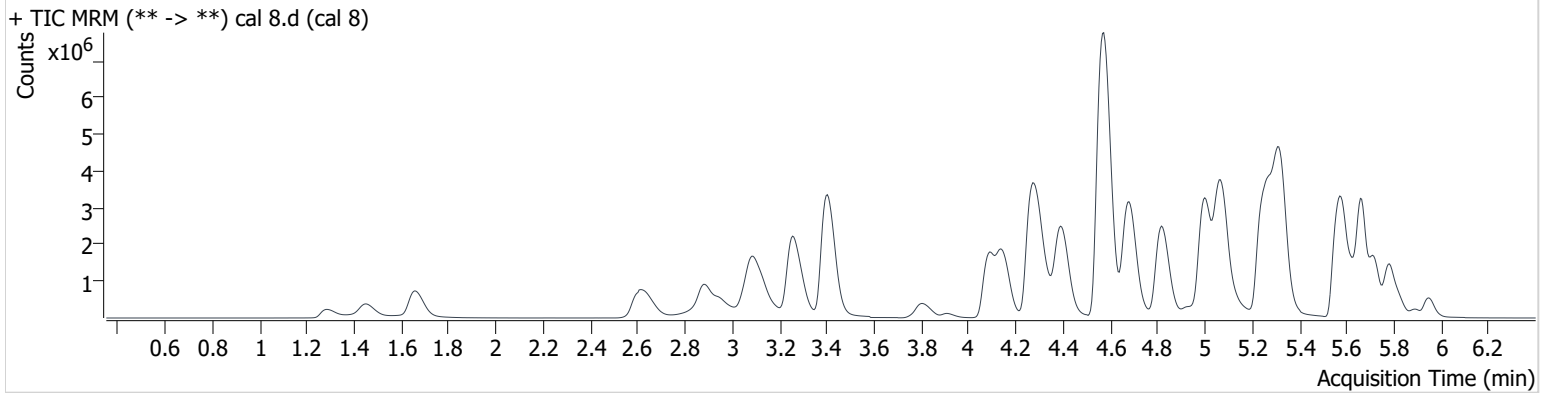
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.680	4305156	227085.7	49.4	342638.8	285834	527.910 ng/ml
Mitragynine	5.265	345566	843.7	39.3	172494.2	285834	450.787 ng/ml
Morphine	1.282	203558	618371.4	27.7	200686.5	3549	503.957 ng/ml
Norbuprenorphine	5.029	2410	2648.1	103.5	1028.4	2684	49.147 ng/ml
Nordiazepam	5.897	218745	338876.6	57.7	6155.8	15414	496.459 ng/ml
Norfentanyl	4.107	395736	49605.2	40.6	1087.3	382263	49.260 ng/ml
Norhydrocodone	3.105	99772	2971.4	41.1	2408.5	44067	634.278 ng/ml
Noroxycodone	2.946	697453	998.8	45.5	656.8	51575	495.394 ng/ml
O-desmethyl-tramadol	3.400	7285857	241643.8	6.3	1149.1	783686	496.256 ng/ml
Oxazepam	5.758	49011	1032.6	68.9	546.8	5924	516.377 ng/ml
Oxycodone	2.869	1847189	24088.6	33.3	898.8	205527	492.005 ng/ml
Oxymorphone	1.450	806070	4633282.1	49.5	1806117.0	68671	504.860 ng/ml
Phentermine	3.808	1141873	522.4	5.0	2152.9	305670	460.709 ng/ml
Promethazine	5.558	2669488	1946613.0	31.7	103567.0	244305	490.390 ng/ml
Quetiapine	5.586	2286822	2323787.5	60.4	1267277.2	65814	497.983 ng/ml
Sertraline	5.783	501120	1095577.1	94.9	257384.0	45721	498.015 ng/ml
Temazepam	5.824	512972	6618.4	29.2	2685.5	48782	502.505 ng/ml
Tramadol	4.263	6214009	376577.3	3.4	2540.7	768578	469.523 ng/ml
Trazodone	5.240	2420045	253497.9	80.6	349.5	280786	427.414 ng/ml
Venlafaxine	5.068	5572883	2573.5	36.6	9182.0	572405	492.340 ng/ml
Zolpidem	5.003	5966735	144640.7	28.5	230779.9	610433	490.228 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020 Data\am 27-28 1-15-2020\QuantResults\mdq 1-1520.batch.bin
Calibration Last Update 1/22/2020 12:23:41 PM

Instrument	69679	Data File	cal 8.d
Type	Cal	Sample	cal 8
Acq. Method	mdq p1 cda 121818.m	Operator	Britany Wylie
Sample Position	P2-H6	Comment	
Injection Volume	2		
Acq. Date-Time	1/15/2020 8:26:20 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.173	133983	1980.3	71.8	112042.2	34000	108.885 ng/ml
7-aminoclonazepam	4.302	419629	627.4	77.0	35864.8	22292	900.999 ng/ml
a-hydroxyalprazolam	5.699	73737	1983.6	59.9	3624.7	3964	973.650 ng/ml
alpha-PVP	4.398	5892469	5250.5	52.9	4297.8	252802	1011.764 ng/ml
Alprazolam	5.782	1294104	162.4	97.3	3202.9	38354	1023.371 ng/ml
Amphetamine	3.101	4368306	5998.4	50.9	2943.3	126751	757.228 ng/ml
Benzoyllecgonine	3.911	216248	552.5	8.2	8833.6	7686	1071.670 ng/ml
Buprenorphine	5.842	52703	60619.9	15.8	766.3	13100	136.741 ng/ml
Bupropion	4.819	6032813	2388870.5	60.5	11450.8	252337	984.086 ng/ml
Carisoprodol	5.733	860994	944267.7	60.8	4497.8	41072	1026.454 ng/ml
Citalopram	5.246	2391305	181720.4	39.8	1018089.0	107736	1010.082 ng/ml
Clonazepam	5.617	142690	115002.9	34.7	41950.2	3211	919.863 ng/ml
Cocaine	4.291	3827428	1145961.9	45.5	124607.7	305365	1004.306 ng/ml
Codeine	2.643	535532	65695.7	99.8	1110.3	26064	980.455 ng/ml
Cyclobenzaprine	5.630	2216987	86766.7	9.8	4719.8	93947	1000.043 ng/ml
Dextromethorphan	5.295	1542579	957843.9	76.8	72331.6	74143	1003.602 ng/ml
Dextrorphan	4.146	1810968	210807.3	216.0	266874.9	209093	1008.481 ng/ml
Diazepam	5.952	856519	3945.7	87.2	1849.6	42023	990.127 ng/ml
Dihydrocodeine	2.601	1624246	124808.7	71.7	55899.4	131807	818.522 ng/ml
Diphenhydramine	5.327	8438346	455007.2	33.3	8844.8	447869	1023.402 ng/ml
Doxylamine	4.574	16223082	762730.8	94.3	48731.3	717501	994.279 ng/ml
EDDP	5.284	1837662	422364.1	250.3	135022.9	217451	1006.051 ng/ml
Fentanyl	5.138	447471	2753.1	65.5	367206.0	223962	105.990 ng/ml
Fluoxetine	5.710	2320168	9941.0	8.2	210195.3	97758	1006.826 ng/ml
Hydrocodone	3.058	1930743	570.8	36.1	1330.8	132364	982.637 ng/ml
Hydromorphone	1.658	1899259	14526.0	78.9	42393.4	71702	1079.380 ng/ml
Ketamine	4.090	4299944	2753.0	34.4	29274.9	240637	921.187 ng/ml
Lamotrigine	4.324	227813	10006.2	88.3	3160.1	74143	522.484 ng/ml
Lorazepam	5.750	60745	60094.8	64.2	138.8	38354	1012.987 ng/ml
Meprobamate	4.932	684625	489359.3	29.9	207145.0	40537	904.693 ng/ml
Methadone	5.664	5321021	192061.8	56.8	195116.9	280642	1005.766 ng/ml
Methamphetamine	3.258	5161127	13578.1	40.0	2190.9	240285	955.410 ng/ml
Metoprolol	4.349	741831	∞	98.3	1611968.9	717501	521.303 ng/ml

AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.681	8216652	423507.8	48.9	17026.4	280642	1025.516 ng/ml
Mitragynine	5.265	574573	515827.7	39.1	220322.6	280642	764.285 ng/ml
Morphine	1.287	326096	745.9	27.7	407431.2	3004	954.245 ng/ml
Norbuprenorphine	5.024	3691	4194.1	105.5	10304.7	2067	96.992 ng/ml
Nordiazepam	5.897	335055	346403.6	57.5	272221.8	12086	970.009 ng/ml
Norfentanyl	4.107	539652	796.5	40.6	864.8	271102	94.755 ng/ml
Norhydrocodone	3.110	162734	4350.0	42.5	2207.6	35218	1292.625 ng/ml
Noroxycodone	2.952	1122415	945.1	47.0	422.4	40953	1004.220 ng/ml
O-desmethyl-tramadol	3.405	12278974	738892.4	6.2	1768.1	646457	1013.520 ng/ml
Oxazepam	5.752	77457	5701.5	69.6	1013.5	4975	974.035 ng/ml
Oxycodone	2.879	3405786	1639.6	33.0	8552.2	186452	1000.679 ng/ml
Oxymorphone	1.450	1354374	3450814.3	49.6	3638395.8	59739	976.298 ng/ml
Phentermine	3.808	1613957	441.6	5.0	1668.4	236064	844.081 ng/ml
Promethazine	5.558	5196573	887192.4	30.7	139272.4	229212	1017.158 ng/ml
Quetiapine	5.586	3889975	1614691.0	60.5	2678328.9	55155	1010.894 ng/ml
Sertraline	5.783	767035	455269.2	94.6	371.1	33958	1026.610 ng/ml
Temazepam	5.824	839591	7814.1	28.6	3015.3	37790	1061.901 ng/ml
Tramadol	4.263	9682667	864695.5	3.3	331.2	590589	953.182 ng/ml
Trazodone	5.240	3945604	428917.3	80.6	1190328.5	329822	593.624 ng/ml
Venlafaxine	5.068	9685410	445317.4	35.7	6932.7	479687	1020.499 ng/ml
Zolpidem	5.000	10112532	2634.5	28.3	1638.9	531277	954.999 ng/ml