

REVIEWED

By Anne Nord at 10:10 am, Dec 11, 2019

12/6/2019

28

Worklist: 3871

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
M2019-4974	2	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ	
M2019-5018	5	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ	
M2019-5032	2	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ	
M2019-5169	5	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ	
M2019-5269	3	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ	
P2019-3407	1	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ	
P2019-3511	1	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ	
P2019-3535	1	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ	
P2019-3540	3	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ	
P2019-3607	1	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ	
P2019-3609	1	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ	
P2019-3676	1	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ	

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

Extraction Date: 12/05/2019
 Plate lot#: 190729

Analyst: Celena Shrum
 Plate Expiration: 01/29/20

Mobile phase A: 5mM Amm Form + 0.01% FA
Blank Blood Lot: 445283-3
Column: Agilent 120 EC-C18 (2.1x 100-2.7um)
LCMS-QQQ ID: 069901

Mobile phase B: 0.01% Formic Acid in MeOH
Urine Blank lot: POC031319

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) or 250µL hydrolyzed urine** in wells of analytical (standards) plate. **Pipette ID: #3**
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. *Shaker ID: 067105*
- 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: 067104*
- 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: 067103*
- 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:

Curve limits: Amphetamine 5-500, Lamotrigine 5-250, Lorazepam 25-1000, ~~Methamphetamine 50-1000~~,^{12/11/19} Metoprolol 5-250, Norbuprenorphine 2.5-100, Norhydrocodone 5-500, Oxazepam 25-1000

**Idaho State Police
Forensic Services
Toxicology Discipline**

Request for Departure from an Analytical Method

Date of Request

12/06/2019

Forensic Scientist

Celena Shrum

Analytical Method

Toxicology AM #28: Blood and Urine Multi-Drug Confirmatory Analysis by LCMS-QQQ

Request

I am requesting to raise the cutoff of methamphetamine for urine cases to 50ng/mL until the method can be formally changed to such. This is the suggested cutoff listed in the 2017 recommended guidelines for toxicological investigation of drug-impaired and motor vehicle fatalities article.

Lab Manager Review

Departure approved

Comments: This is a minor deviation

Departure Not Approved

Comments:



Date: 12/10/19

Rachel Cutler
Pocatello Laboratory Manager



Idaho State Police Forensic Services

AM #28 Blood and Urine Multi-Drug Confirmation by LCMS-QQQ

Methanol External Control Solution (Lot: 042719)

100 ul of 1mg/mL stock was added to each drug to 9600 ul of LC MeOH.

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>	<i>Expiration Date</i>
Methanol (LCMS)	Fisher	184782	
Morphine	Cerilliant	FE08141515	November 2020
Metoprolol	Cerilliant	FN06091510	July 2020
Flunitrazepam	Cerilliant	FE08051602	August 2021
Trazodone	Cerilliant	FN12151403	January 2020
Prepared:	04/27/19		
Prepared By:	Tamara Salazar		
Expires:	01/31/2020		

Urine External Control Solution (Lot: WS111519)

200 ul of methanol external control solution was added to 9800 ul of urine.

Approximately 100ng/mL of each compound.

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
Negative Urine	Pocatello Lab	POC031319
Methanol External Control Solution		042719
Prepared:	11/15/19	
Prepared by:	Celena Shrum	
Expires:	01/31/2020	

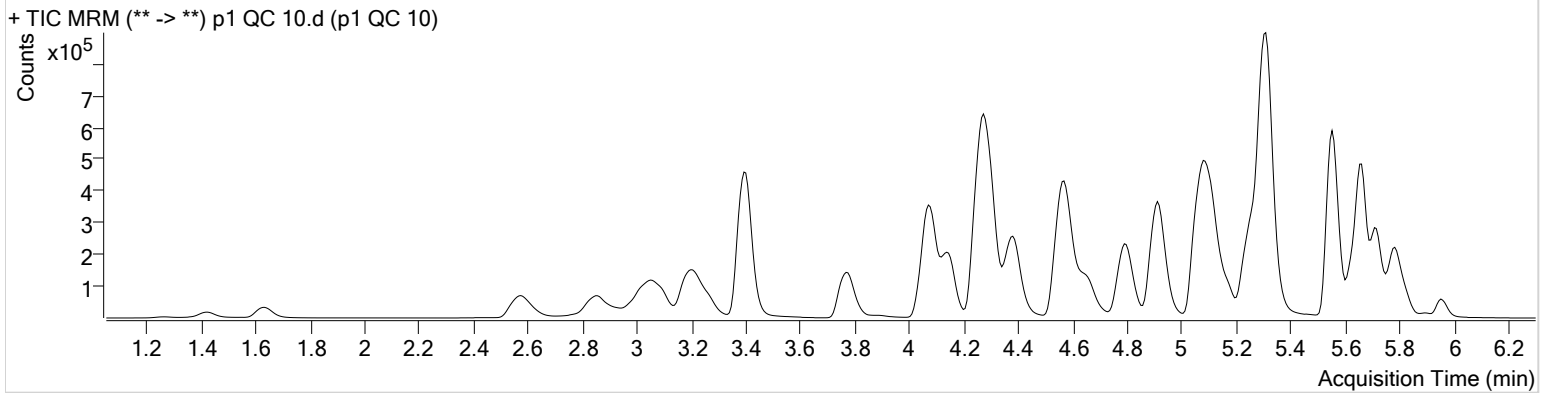
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Calibration Last Update 12/9/2019 8:48:01 AM

Instrument	Falco	Data File	p1 QC 10.d
Type	QC	Sample	p1 QC 10
Acq. Method	MDQ P1 Combined 092319.m	Operator	Celena Shrum
Sample Position	P1-H11	Comment	
Injection Volume	2		
Acq. Date-Time	12/5/2019 3:36:25 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.163	1860	3545.89	75.9	4706.34	39817	0.9493 ng/ml
7-aminoclonazepam	4.291	23713	∞	80.6	2773.57	91657	10.2844 ng/ml
a-hydroxyalprazolam	5.700	1227	17.77	64.0	∞	5989	10.3642 ng/ml
alpha-PVP	4.391	151774	4133.12	50.3	3624.97	678302	9.9271 ng/ml
Alprazolam	5.784	38219	121.91	102.8	285.43	95406	10.2336 ng/ml
Amphetamine	3.088	189816	2154.69	55.4	∞	209193	10.4896 ng/ml
Benzoylcegonine	3.914	3570	316.69	7.8	10.95	14652	9.1829 ng/ml
Buprenorphine	5.821	5401	115.88	17.0	∞	179820	0.9968 ng/ml
Bupropion	4.807	181678	∞	57.5	401.30	628916	9.9569 ng/ml
Carisoprodol	5.733	23479	237.41	54.6	127.91	114649	10.3100 ng/ml
Citalopram	5.249	127908	335.04	41.9	4273.61	581979	9.9780 ng/ml
Clonazepam	5.620	3924	279.08	34.0	59.89	7155	10.2339 ng/ml
Cocaine	4.291	136737	5157.57	44.8	5172.48	1074458	9.7623 ng/ml
Codeine	2.623	14614	1237.50	103.4	153.81	64059	9.8501 ng/ml
Cyclobenzaprine	5.631	103608	7787.90	10.3	∞	369293	10.1163 ng/ml
Dextromethorphan	5.292	84664	5863.82	79.6	∞	384852	10.1034 ng/ml
Dextrorphan	4.147	40551	4933.85	211.4	535.02	520939	10.2321 ng/ml
Diazepam	5.961	23715	421.70	86.6	191.20	112766	10.2394 ng/ml
Dihydrocodeine	2.601	40403	2273.44	66.9	103.70	221432	10.1823 ng/ml
Diphenhydramine	5.320	297091	689.07	33.7	710.49	2217638	10.1986 ng/ml
Doxylamine	4.581	336946	∞	97.4	1128.45	1412417	9.8667 ng/ml
EDDP	5.284	59429	1853.42	42.4	106.29	327915	9.9925 ng/ml
Fentanyl	5.113	10140	1623.37	74.4	1988.63	543375	0.9988 ng/ml
Fluoxetine	5.716	102261	912.62	8.8	174.18	424626	10.4417 ng/ml
Hydrocodone	3.065	36872	∞	40.4	98.76	234741	10.2831 ng/ml
Hydromorphone	1.641	25804	581.95	76.4	202.48	98301	9.8073 ng/ml
Ketamine	4.074	116139	4855.50	37.5	182.95	533661	10.1447 ng/ml
Lamotrigine	4.315	10501	653.28	78.3	558.71	533661	10.5199 ng/ml
Lorazepam	5.748	1621	∞	67.8	10.90	7155	14.7025 ng/ml*
Meprobamate	4.922	5517	480.79	26.7	57.31	27558	10.4455 ng/ml
Methadone	5.661	188132	7276.74	52.5	1455.14	894247	9.9770 ng/ml
Methamphetamine	3.262	163214	244.68	42.9	859.08	624728	10.2221 ng/ml*
Metoprolol	4.346	29428	1839.02	98.9	1772.55	1411009	10.0002 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.		
Mirtazapine	4.657	232998	25128.07	49.4	873.80	678302	9.1016 ng/ml		
Mitragynine	5.247	35856	20191.14	41.0	3031.50	894247	9.7125 ng/ml		
Morphine	1.266	5426	727.10	21.4	103.09	5466	9.9981 ng/ml		
Norbuprenorphine	5.024	105	180.27	96.9	364.56	5634	0.5312 ng/ml*		
Nordiazepam	5.901	5574	269.32	53.2	113.58	16904	10.2136 ng/ml		
Norfentanyl	4.108	15003	405.23	37.6	78.90	742531	0.9730 ng/ml		
Norhydrocodone	3.100	1026	56.51	41.3	98.63	55298	9.8889 ng/ml		
Noroxycodone	2.950	25167	623.59	48.0	15.02	75889	9.9994 ng/ml		
O-desmethyl-tramadol	3.401	266459	1714.93	6.1	1297.25	1423159	10.0803 ng/ml		
Oxazepam	5.758	1984	7.81	Low	95.1	High	16.04	11999	10.6090 ng/ml*
Oxycodone	2.874	66458	2015.50	31.2	1543.59	293140	10.4338 ng/ml		
Oxymorphone	1.423	16057	921.20	47.8	192.20	57210	10.2560 ng/ml		
Phentermine	3.805	48010	∞	2.0	67.60	549844	10.2535 ng/ml		
Promethazine	5.556	237855	472.88	30.9	390.28	1096932	9.8866 ng/ml		
Quetiapine	5.565	167070	330.47	59.6	2187.79	218386	10.5730 ng/ml		
Sertraline	5.791	50746	1224.37	88.7	291.04	215630	10.2409 ng/ml		
Temazepam	5.825	21736	187.49	31.4	29.40	108209	10.7834 ng/ml		
Tramadol	4.274	286583	10078.59	3.3	131.89	1411009	10.4133 ng/ml		
Trazodone	5.167	168717	10353.56	78.3	7989.58	686758	10.0999 ng/ml		
Venlafaxine	5.067	213083	23485.77	37.3	229.87	1145732	10.1442 ng/ml		
Zolpidem	4.932	230278	3047.39	31.0	26923.95	1095294	10.1743 ng/ml		

*Outside curve range

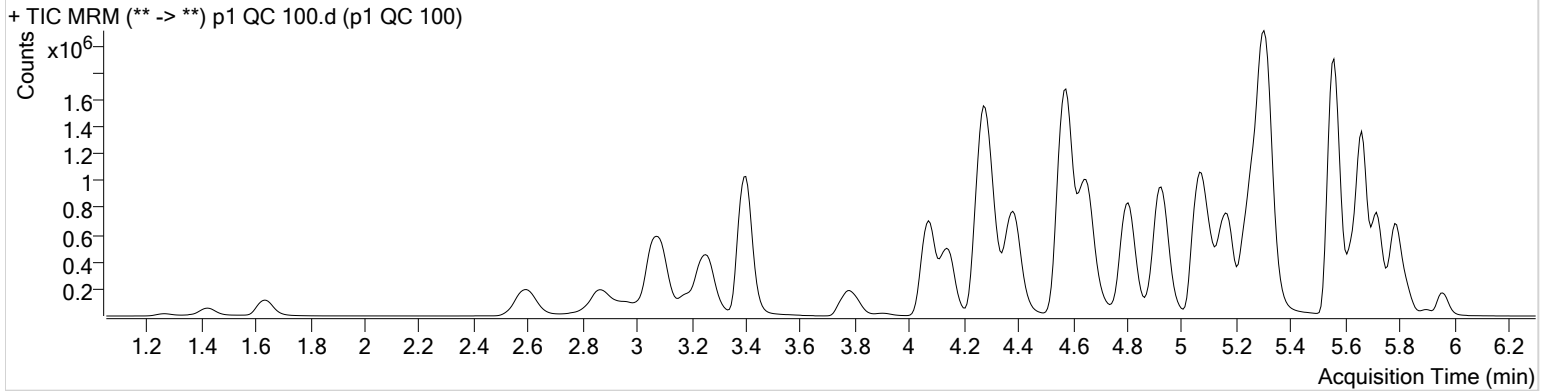
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Calibration Last Update 12/9/2019 8:48:01 AM

Instrument Falco **Data File** p1 QC 100.d
Type QC **Sample** p1 QC 100
Acq. Method MDQ P1 Combined 092319.m **Operator** Celena Shrum
Sample Position P1-G11 **Comment**
Injection Volume 2
Acq. Date-Time 12/5/2019 3:57:35 PM
Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.163	17143	1722.66	71.8	7126.23	35771	9.8471 ng/ml
7-aminoclonazepam	4.285	187436	11905.50	83.0	14119.29	80015	100.4897 ng/ml
a-hydroxyalprazolam	5.707	11350	297.88	61.3	407.19	5472	98.1991 ng/ml
alpha-PVP	4.391	1384397	87681.45	50.8	16462.98	631812	94.8867 ng/ml
Alprazolam	5.784	336911	3172.40	103.7	702.46	88128	97.7153 ng/ml
Amphetamine	3.088	1576414	13404.98	53.9	25010.98	192853	102.5497 ng/ml
Benzoylcegonine	3.907	28274	1073.26	7.7	100.49	13509	102.7372 ng/ml
Buprenorphine	5.821	47356	782.14	16.0	362.22	157262	9.3344 ng/ml
Bupropion	4.807	1679278	136195.04	58.1	74156.75	593957	100.4301 ng/ml
Carisoprodol	5.733	193168	14629.85	55.1	205.08	99368	97.2460 ng/ml
Citalopram	5.243	1093370	26705.40	41.9	9768.70	513386	98.8028 ng/ml
Clonazepam	5.614	34221	2257.99	33.8	1421.65	6687	98.6245 ng/ml
Cocaine	4.291	1207892	121121.13	43.6	∞	952435	96.5092 ng/ml
Codeine	2.617	126884	5427.96	101.8	13183.09	57489	102.5011 ng/ml
Cyclobenzaprine	5.631	904452	66848.48	10.4	4507.73	331936	98.6463 ng/ml
Dextromethorphan	5.292	733877	489.22	79.0	∞	337667	99.3435 ng/ml
Dextrorphan	4.147	374685	2433.86	209.2	39644.24	484700	101.5120 ng/ml
Diazepam	5.961	206422	1050.64	87.1	1392.75	100078	100.9216 ng/ml
Dihydrocodeine	2.595	355380	14097.47	67.4	∞	203221	103.0393 ng/ml
Diphenhydramine	5.313	2561796	65490.83	33.8	127335.76	1912383	98.5084 ng/ml
Doxylamine	4.574	3239566	∞	97.9	6690.65	1404767	97.6140 ng/ml
EDDP	5.284	952503	5054.42	42.3	265.05	541117	97.8493 ng/ml
Fentanyl	5.113	96934	669.99	74.5	∞	511390	9.8799 ng/ml
Fluoxetine	5.716	953020	895.36	9.0	∞	412725	98.3076 ng/ml
Hydrocodone	3.058	322079	78.46	41.6	316.13	226512	97.9026 ng/ml
Hydromorphone	1.641	230041	∞	76.7	1408.65	91574	95.5295 ng/ml
Ketamine	4.074	1036658	37310.01	38.8	693.45	498762	101.3493 ng/ml
Lamotrigine	4.308	85321	2013.30	79.5	4395.24	498762	100.7548 ng/ml
Lorazepam	5.755	15059	2612.68	50.0	∞	6687	90.1898 ng/ml
Meprobamate	4.929	48714	965.17	25.3	525.31	25751	103.7256 ng/ml
Methadone	5.661	1693455	1546.73	52.2	∞	815871	95.1150 ng/ml
Methamphetamine	3.255	1350249	9902.35	42.9	1282.41	598662	106.2001 ng/ml
Metoprolol	4.346	245170	148519.96	97.4	∞	1304706	98.8845 ng/ml



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.657	2184282	5838.35	48.7	4848.56	631812	94.4290 ng/ml
Mitragynine	5.247	322827	344306.95	39.6	8291.37	815871	104.4715 ng/ml
Morphine	1.266	47178	4453.73	23.6	819.15	5043	97.9659 ng/ml
Norbuprenorphine	5.003	1173	110.58	75.1	1450.37	5406	10.5384 ng/ml
Nordiazepam	5.908	48771	644.58	57.1	2422.31	15478	102.9050 ng/ml
Norfentanyl	4.102	142479	271.46	37.8	908.35	705068	9.6899 ng/ml
Norhydrocodone	3.100	12874	∞	42.2	87.22	55574	86.3338 ng/ml
Noroxycodone	2.950	226455	913.48	48.0	805.64	69609	100.9422 ng/ml
O-desmethyl-tramadol	3.401	2414824	84628.83	6.1	∞	1315653	100.4187 ng/ml
Oxazepam	5.758	16711	396.63	70.3	8.64	10858	94.8446 ng/ml
Oxycodone	2.868	606149	1863.66	31.7	4137.46	275446	103.2196 ng/ml
Oxymorphone	1.423	141438	673.22	48.4	2361.50	55286	95.9890 ng/ml
Phentermine	3.805	408692	∞	2.2	434.86	498600	106.1462 ng/ml
Promethazine	5.556	2178617	∞	30.1	22793.47	1012776	96.3403 ng/ml
Quetiapine	5.565	1448480	1255.68	59.7	57803.37	196572	108.1956 ng/ml
Sertraline	5.791	445030	19343.86	90.6	12605.38	201515	97.6405 ng/ml
Temazepam	5.825	189097	875.55	29.8	355.12	98591	101.8672 ng/ml
Tramadol	4.267	2481028	55118.09	3.4	780.78	1304706	105.5170 ng/ml
Trazodone	5.167	1528271	30268.92	78.4	232728.83	640365	100.5841 ng/ml
Venlafaxine	5.067	1944759	151147.98	37.0	890.96	1060026	96.9894 ng/ml
Zolpidem	4.932	2100229	62425.88	30.9	23878.59	1021303	102.1699 ng/ml

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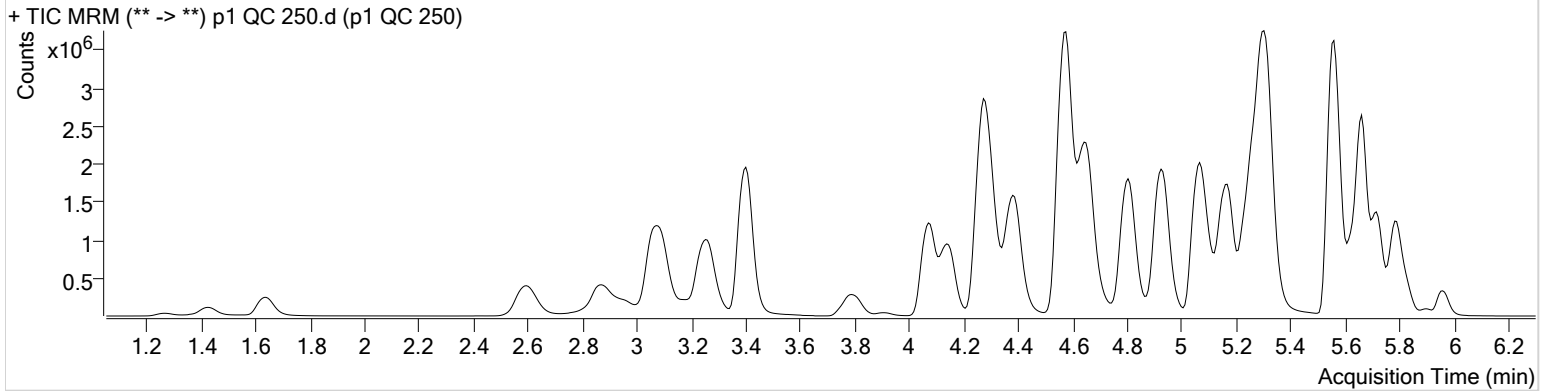
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Calibration Last Update 12/9/2019 8:48:01 AM

Instrument Falco **Data File** p1 QC 250.d
Type QC **Sample** p1 QC 250
Acq. Method MDQ P1 Combined 092319.m **Operator** Celena Shrum
Sample Position P1-F11 **Comment**
Injection Volume 2
Acq. Date-Time 12/5/2019 4:18:46 PM
Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.170	40740	1607.20	72.1	404.10	33236	25.2034 ng/ml
7-aminoclonazepam	4.285	342709	18529.73	82.1	16084.44	60167	245.6599 ng/ml
a-hydroxyalprazolam	5.700	26715	1457.46	68.3	263.65	5284	238.3101 ng/ml
alpha-PVP	4.391	3339958	347678.72	50.8	77186.41	591774	243.9926 ng/ml
Alprazolam	5.784	770791	1420.24	103.6	2303.24	78957	249.5313 ng/ml
Amphetamine	3.088	3332706	24273.74	54.2	50015.17	179324	234.4381 ng/ml
Benzoylcegonine	3.907	69664	4477.60	7.7	1944.10	13371	260.4117 ng/ml
Buprenorphine	5.821	109750	2206.64	15.9	1312.61	136487	24.8036 ng/ml
Bupropion	4.807	4070569	∞	57.6	55339.01	565686	256.1329 ng/ml
Carisoprodol	5.733	412079	16838.11	55.2	3907.16	81613	252.4670 ng/ml
Citalopram	5.243	2409637	30713.95	42.0	22479.62	444004	252.1501 ng/ml
Clonazepam	5.614	78496	6424.07	32.9	1327.65	6240	242.9801 ng/ml
Cocaine	4.291	2753565	162882.51	43.0	62714.87	852376	245.6987 ng/ml
Codeine	2.617	290352	129.03	101.1	405.62	51479	263.2312 ng/ml
Cyclobenzaprine	5.631	2001288	∞	10.2	9734.85	291490	248.6312 ng/ml
Dextromethorphan	5.292	1591373	43505.75	79.3	71961.19	293158	248.0488 ng/ml
Dextrorphan	4.147	891099	1881.03	209.7	33895.29	456332	256.4132 ng/ml
Diazepam	5.961	470349	980.63	87.4	3671.73	91218	252.3783 ng/ml
Dihydrocodeine	2.588	820559	19655.11	66.9	17815.92	193889	250.2663 ng/ml
Diphenhydramine	5.320	5677911	187064.85	33.6	14452.87	1684239	247.3219 ng/ml
Doxylamine	4.574	7871329	850815.45	96.7	772419.10	1313014	254.1635 ng/ml
EDDP	5.284	2503321	28770.68	42.3	25680.14	553170	251.7027 ng/ml
Fentanyl	5.113	230652	1570.33	75.8	54833.00	477965	25.1081 ng/ml
Fluoxetine	5.716	2082387	97164.29	9.0	536560.22	360493	245.6136 ng/ml
Hydrocodone	3.058	778110	271.19	41.1	168.45	212278	253.3261 ng/ml
Hydromorphone	1.641	550521	4032.20	76.1	2969.32	87443	239.7106 ng/ml
Ketamine	4.074	2473120	101210.58	38.6	10749.19	473890	255.2645 ng/ml
Lamotrigine	4.308	169507	3557.18	79.4	19342.72	473890	211.9932 ng/ml
Lorazepam	5.755	36355	784.85	54.9	162.85	6240	223.4023 ng/ml
Meprobamate	4.929	110096	8101.72	25.5	675.21	23367	259.2303 ng/ml
Methadone	5.661	3993111	5710.16	51.2	2092.20	744321	245.2442 ng/ml
Methamphetamine	3.255	3198023	8811.97	42.8	12057.81	590152	258.4577 ng/ml
Metoprolol	4.346	516456	221660.12	96.7	18717.01	1248179	219.0540 ng/ml



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.650	5080905	16994.76	49.0	12259.20	591774	234.9773 ng/ml
Mitragynine	5.241	740500	30892.16	39.4	477979.77	744321	264.1453 ng/ml
Morphine	1.266	109958	4895.61	21.8	225.64	4536	254.5527 ng/ml
Norbuprenorphine	5.017	2863	167.51	79.8	169.28	5547	25.6380 ng/ml
Nordiazepam	5.908	114330	1351.23	57.2	1106.64	14525	257.9869 ng/ml
Norfentanyl	4.102	325529	147.41	37.5	1457.86	634310	24.6014 ng/ml
Norhydrocodone	3.106	35158	672.74	40.3	583.13	53357	239.6151 ng/ml
Noroxycodone	2.950	519397	635.44	48.3	25591.20	63973	252.3995 ng/ml
O-desmethyl-tramadol	3.401	5849825	135887.56	6.1	18133.70	1249576	256.4061 ng/ml
Oxazepam	5.758	41754	333.46	72.4	698.32	11187	229.3485 ng/ml
Oxycodone	2.868	1509890	4465.26	31.2	4682.64	269524	263.1091 ng/ml
Oxymorphone	1.423	323976	697.32	47.5	∞	48673	250.2418 ng/ml
Phentermine	3.805	907194	∞	2.2	∞	466390	253.5089 ng/ml
Promethazine	5.556	5011991	256327.31	30.0	22592.04	904650	247.8176 ng/ml
Quetiapine	5.565	3094459	2321.07	59.9	42342.92	175827	259.4378 ng/ml
Sertraline	5.791	890451	23282.44	90.3	159214.83	160505	245.5622 ng/ml
Temazepam	5.825	453846	1487.28	30.4	625.63	92136	261.4167 ng/ml
Tramadol	4.267	5727042	∞	3.4	∞	1248179	255.9544 ng/ml
Trazodone	5.167	3663682	128693.45	78.4	137923.48	608048	254.3750 ng/ml
Venlafaxine	5.067	4695100	16993.44	37.0	16537.24	1008861	245.4964 ng/ml
Zolpidem	4.932	5055409	182811.28	30.7	140185.75	984064	255.6897 ng/ml

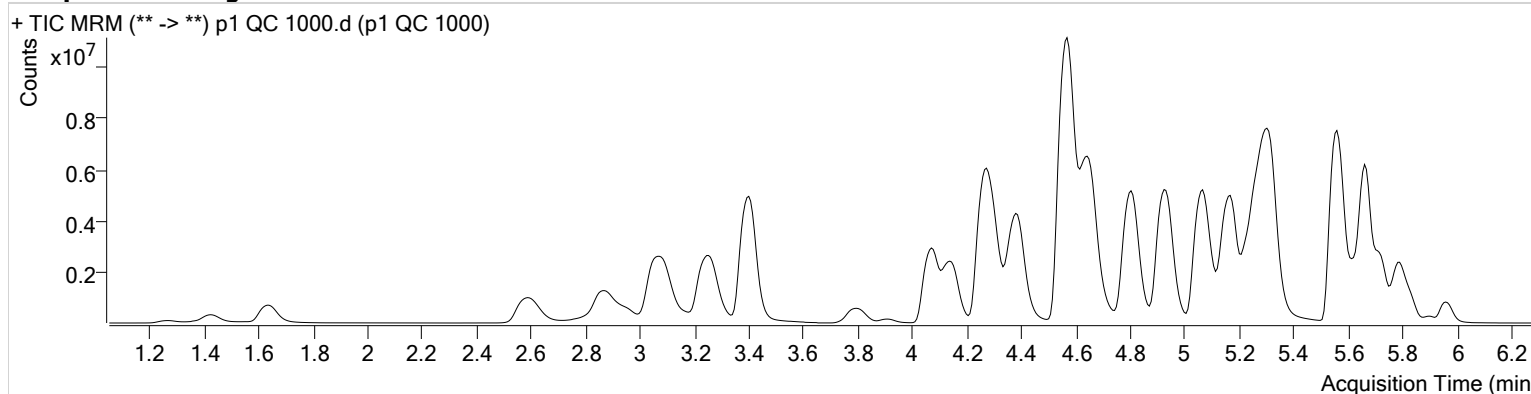
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Calibration Last Update 12/9/2019 8:48:01 AM

Instrument	Falco	Data File	p1 QC 1000.d
Type	QC	Sample	p1 QC 1000
Acq. Method	MDQ P1 Combined 092319.m	Operator	Celena Shrum
Sample Position	P1-E11	Comment	
Injection Volume	2		
Acq. Date-Time	12/5/2019 4:39:56 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.163	133849	52844.22	72.0	4864.02	25727	107.0120 ng/ml
7-aminoclonazepam	4.291	501126	12923.49	82.4	19085.94	26939	804.3487 ng/ml
a-hydroxyalprazolam	5.707	90295	257.13	63.6	7465.06	4599	923.4398 ng/ml
alpha-PVP	4.391	10466169	613202.95	50.3	84158.90	454072	995.6319 ng/ml
Alprazolam	5.784	2081480	1062.66	103.8	∞	52133	1020.5760 ng/ml
Amphetamine	3.088	7692666	252664.74	53.7	∞	141280	688.7966 ng/ml *
Benzoylcegonine	3.907	270796	782.55	7.6	2744.11	12614	1082.8083 ng/ml
Buprenorphine	5.821	290347	2094.12	15.8	∞	79572	112.2950 ng/ml
Bupropion	4.807	13018014	1054917.57	57.0	232366.21	460297	1007.6770 ng/ml
Carisoprodol	5.733	985498	240737.92	54.1	3792.99	46838	1051.8149 ng/ml
Citalopram	5.236	5494481	299977.32	42.1	208589.00	255454	1000.0497 ng/ml
Clonazepam	5.614	215145	7973.33	33.6	399.33	4935	843.0326 ng/ml
Cocaine	4.291	7291171	4009722.62	42.9	267597.23	557862	993.7881 ng/ml
Codeine	2.617	779476	12706.21	103.3	19067.10	36319	1003.9689 ng/ml
Cyclobenzaprine	5.631	4468198	1134.47	10.3	26377.41	161606	1001.3929 ng/ml
Dextromethorphan	5.285	3621559	202080.70	78.5	95523.91	166506	993.7147 ng/ml
Dextrorphan	4.147	2723018	21173.41	209.8	1453.96	344960	1036.4817 ng/ml
Diazepam	5.961	1334436	13624.36	87.0	2128.87	62183	1050.5471 ng/ml
Dihydrocodeine	2.581	2388977	54311.94	67.8	∞	165502	855.1299 ng/ml
Diphenhydramine	5.320	13732975	684968.70	33.3	37098.10	983564	1023.1181 ng/ml
Doxylamine	4.568	25876519	548650.41	96.9	568039.57	1111283	987.9672 ng/ml
EDDP	5.278	8384445	375511.49	41.7	141687.62	454416	1026.5259 ng/ml
Fentanyl	5.113	721007	48212.28	77.7	841.45	348798	107.4566 ng/ml
Fluoxetine	5.716	4319385	187527.30	8.9	475209.62	184232	996.2367 ng/ml
Hydrocodone	3.052	2522916	171.50	41.7	161.20	187441	931.8126 ng/ml
Hydromorphone	1.641	1753807	∞	76.3	1344.66	70395	949.1710 ng/ml
Ketamine	4.074	7518454	12329.34	38.0	14491.24	379701	969.9796 ng/ml
Lamotrigine	4.315	284793	2915.38	79.1	26292.85	379701	445.8524 ng/ml *
Lorazepam	5.755	149906	962.53	54.0	199.44	4935	1138.4500 ng/ml
Meprobamate	4.929	279162	∞	25.7	2605.37	17149	897.1152 ng/ml
Methadone	5.661	11396810	563422.70	51.1	69053.92	522528	995.9125 ng/ml
Methamphetamine	3.255	9482999	3435.07	42.2	2671.23	540370	842.2657 ng/ml
Metoprolol	4.346	1131398	16437.51	97.2	5060.54	867317	692.9692 ng/ml *

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.650	15610855	∞	48.4	5913.19	454072	941.8345 ng/ml
Mitragynine	5.241	1883460	75467.03	40.7	370750.15	522528	959.5810 ng/ml
Morphine	1.266	322232	11331.90	23.3	∞	3469	976.7456 ng/ml
Norbuprenorphine	5.010	10402	128.87	79.5	7156.99	5210	100.3663 ng/ml
Nordiazepam	5.908	361730	9986.38	57.6	421.50	11623	1021.8625 ng/ml
Norfentanyl	4.102	873763	11248.18	37.5	11133.78	409706	102.2191 ng/ml
Norhydrocodone	3.106	111797	475.32	40.4	632.88	36752	1094.5191 ng/ml*
Noroxycodone	2.943	1559326	11123.31	47.8	1907.71	49794	974.4495 ng/ml
O-desmethyl-tramadol	3.401	18501261	334442.71	6.0	44047.46	971777	1043.3142 ng/ml
Oxazepam	5.758	179111	513.59	69.9	268.03	11622	945.4953 ng/ml
Oxycodone	2.868	5346345	∞	31.1	5587.55	244833	1026.2389 ng/ml
Oxymorphone	1.423	1050458	∞	46.7	601.06	43182	915.3646 ng/ml
Phentermine	3.798	2428821	∞	2.2	∞	376360	843.8084 ng/ml
Promethazine	5.556	12833417	304584.73	29.0	98756.89	574542	998.5412 ng/ml
Quetiapine	5.571	7199551	246989.72	58.7	1142921.32	115279	922.5162 ng/ml
Sertraline	5.791	1309349	1213.61	90.8	109338.50	58180	996.7057 ng/ml
Temazepam	5.825	1515723	91398.24	29.9	2179.83	73764	1090.1115 ng/ml
Tramadol	4.260	15576922	∞	3.3	996.67	867317	1004.6688 ng/ml
Trazodone	5.167	10899516	505516.77	78.7	380625.75	469212	981.4998 ng/ml
Venlafaxine	5.067	14792687	13181.58	36.3	7498.87	774789	1006.0744 ng/ml
Zolpidem	4.925	16018698	462047.83	30.2	144346.52	806604	989.2985 ng/ml

*Outside curve range

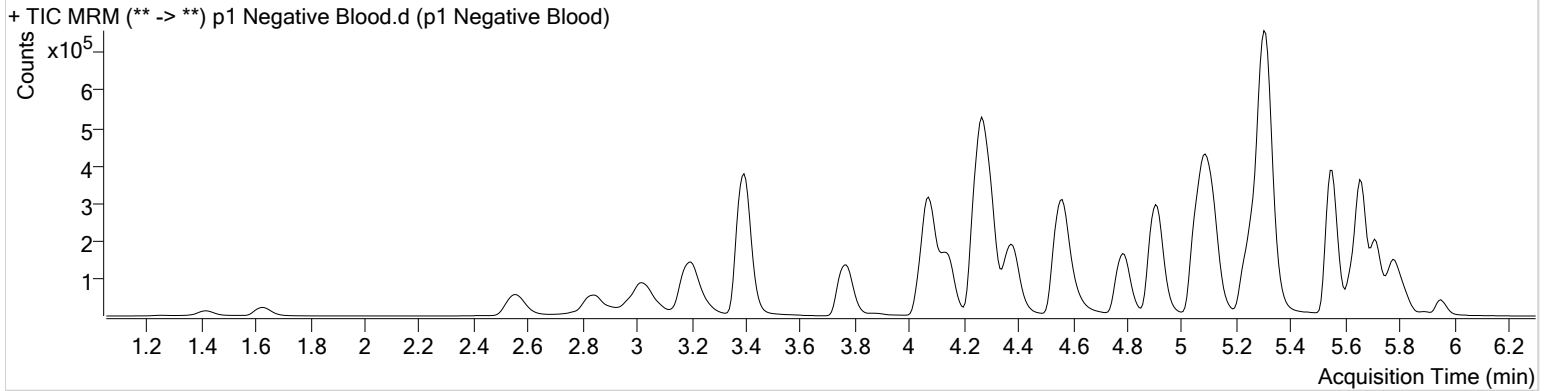
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Calibration Last Update 12/9/2019 8:48:01 AM

Instrument	Falco	Data File	p1 Negative Blood.d
Type	Sample	Sample	p1 Negative Blood
Acq. Method	MDQ P1 Combined 092319.m	Operator	Celena Shrum
Sample Position	P1-D11	Comment	
Injection Volume	2		
Acq. Date-Time	12/5/2019 5:22:21 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Methamphetamine	3.255	42390	312.57	42.7	76.50	625616	0.9092 ng/ml<50

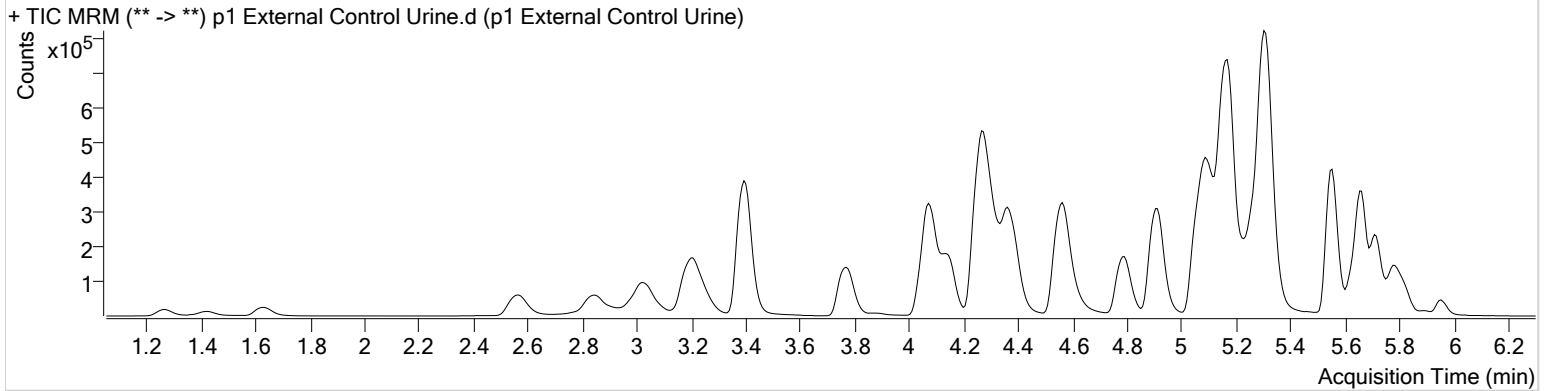
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Calibration Last Update 12/9/2019 8:48:01 AM

Instrument	Falco	Data File	p1 External Control Urine.d
Type	Sample	Sample	p1 External Control Urine
Acq. Method	MDQ P1 Combined 092319.m	Operator	Celena Shrum
Sample Position	P1-B11	Comment	
Injection Volume	2		
Acq. Date-Time	12/5/2019 5:43:33 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Clonazepam	5.654	2132	33.57	6.8 Low	6.73 Low	6405	6.0640 ng/ml
Methamphetamine	3.262	64284	460.10	42.2	165.81	642755	2.4617 ng/ml <50
Metoprolol	4.346	276078	9656.62	96.0	∞	1502070	96.6958 ng/ml
Morphine	1.266	57215	1129.50	22.0	∞	6175	97.0166 ng/ml
Trazodone	5.167	1576340	795.79	78.4	88059.26	714396	92.9752 ng/ml

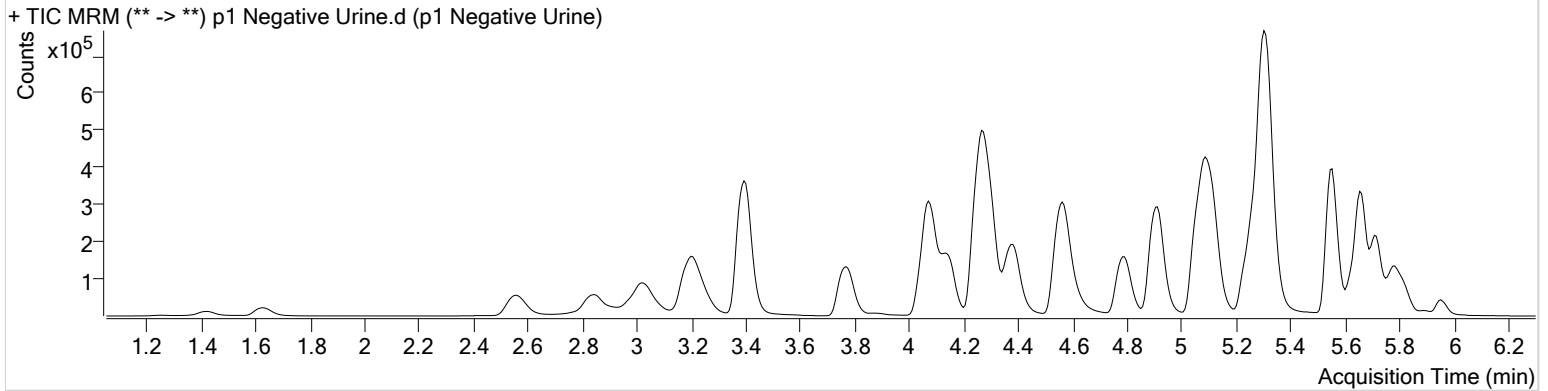
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Calibration Last Update 12/9/2019 8:48:01 AM

Instrument	Falco	Data File	p1 Negative Urine.d
Type	Sample	Sample	p1 Negative Urine
Acq. Method	MDQ P1 Combined 092319.m	Operator	Celena Shrum
Sample Position	P1-C11	Comment	
Injection Volume	2		
Acq. Date-Time	12/5/2019 5:32:56 PM		

Sample Chromatogram

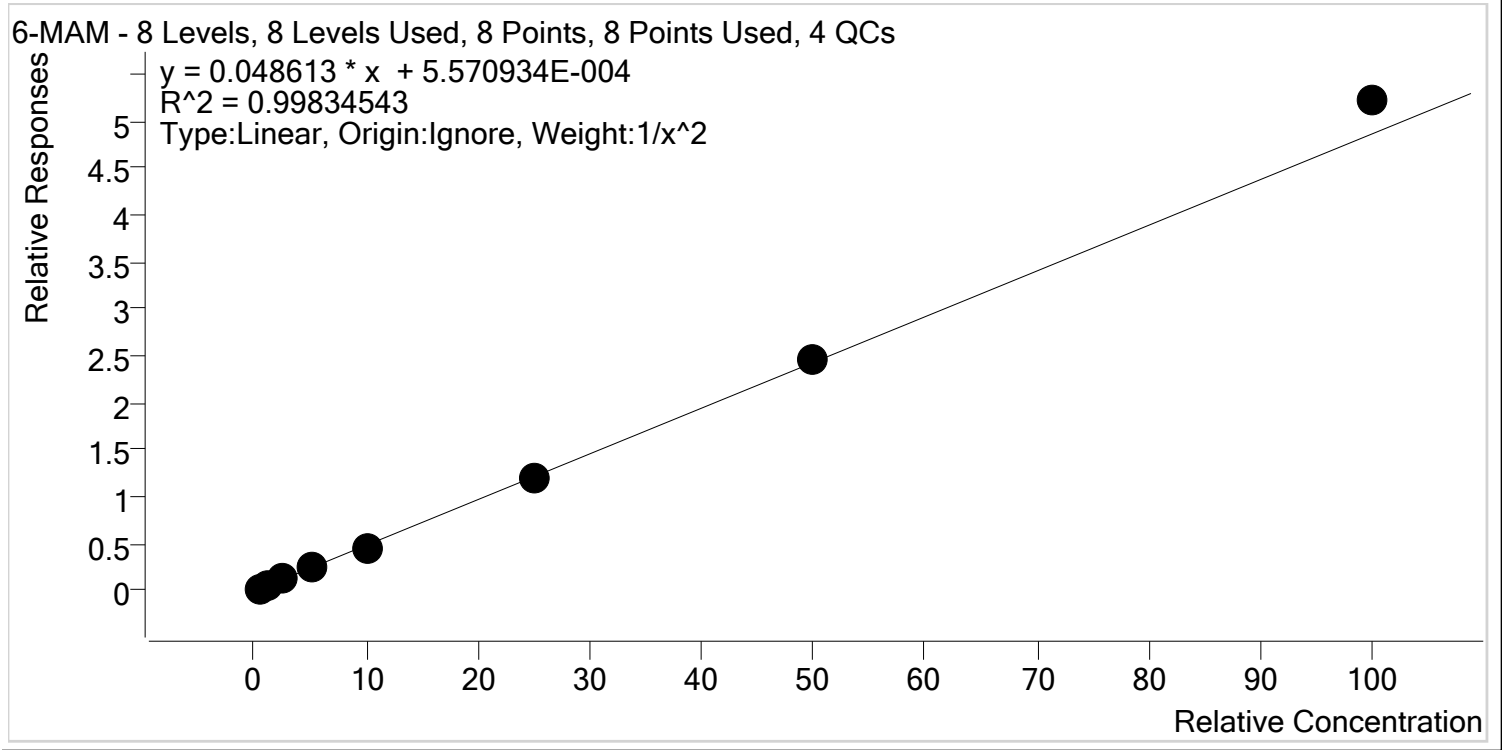


Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Methamphetamine	3.262	51911	486.69	42.5	140.26	598571	1.8221 ng/ml<50



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte 6-MAM **Internal Standard** 6-MAM-D6

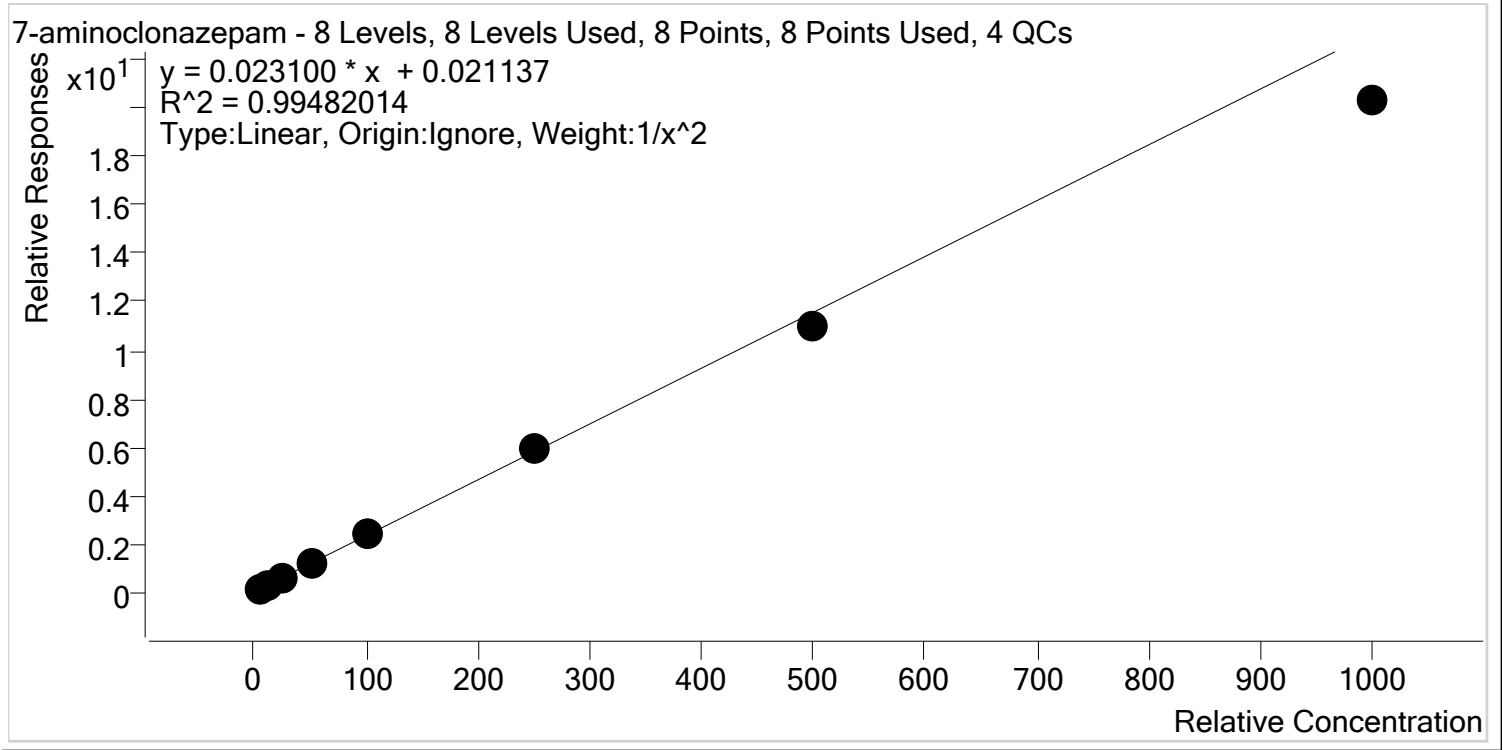


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	101.3
p1 Cal 2- 10ng	2	✓	1.0	1.0	98.3
p1 Cal 3 -25ng	3	✓	2.5	2.5	100.0
p1 Cal 4-50ng	4	✓	5.0	4.9	97.4
p1 Cal 5-100ng	5	✓	10.0	9.6	95.8
p1 Cal 6-250ng	6	✓	25.0	24.6	98.3
p1 Cal 7-500ng	7	✓	50.0	50.8	101.6
p1 Cal 8-1000ng	8	✓	100.0	107.3	107.3



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte 7-aminoclonazepam **Internal Standard** 7-Aminoclonazepam-D4



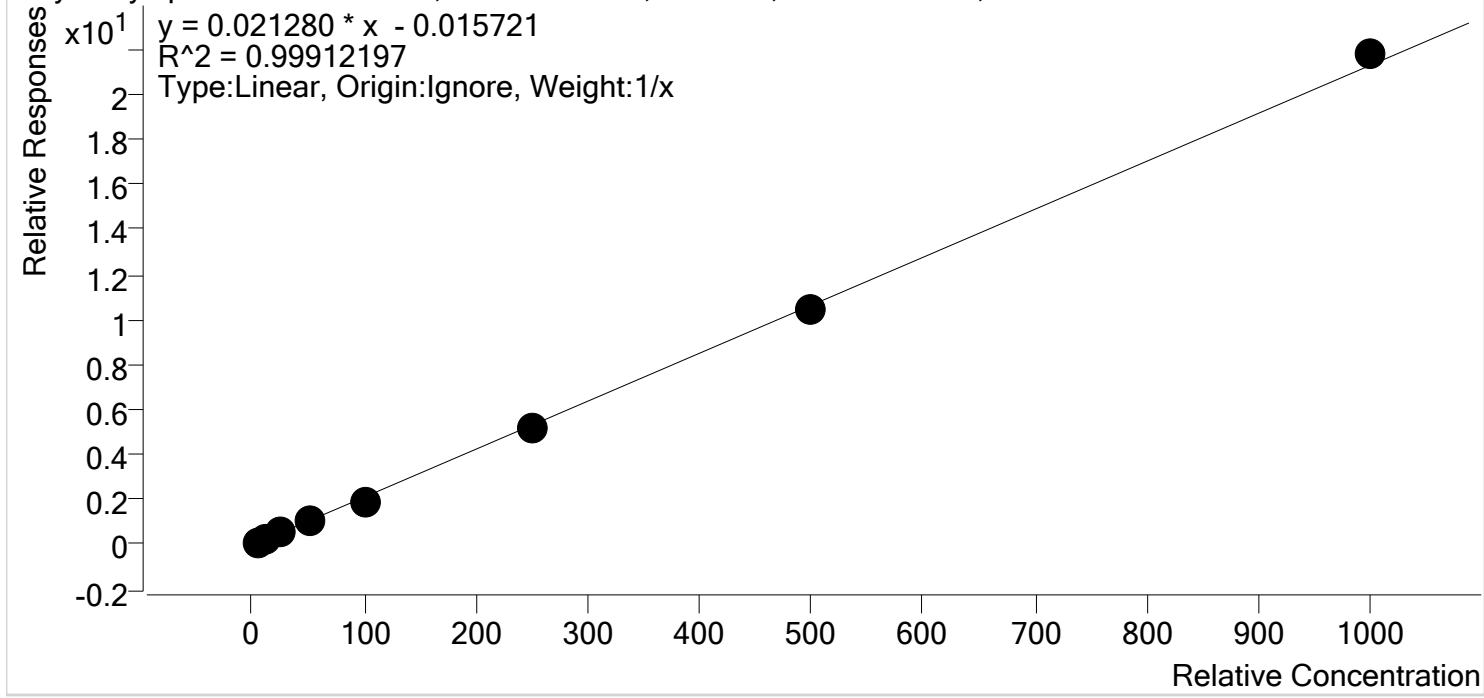
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.1
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.1
p1 Cal 3 -25ng	3	✓	25.0	26.4	105.4
p1 Cal 4-50ng	4	✓	50.0	53.1	106.2
p1 Cal 5-100ng	5	✓	100.0	105.6	105.6
p1 Cal 6-250ng	6	✓	250.0	253.8	101.5
p1 Cal 7-500ng	7	✓	500.0	475.9	95.2
p1 Cal 8-1000ng	8	✓	1000.0	879.3	87.9



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte a-hydroxyalprazolam **Internal Standard** a-hydroxyalprazolam-D5

a-hydroxyalprazolam - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs

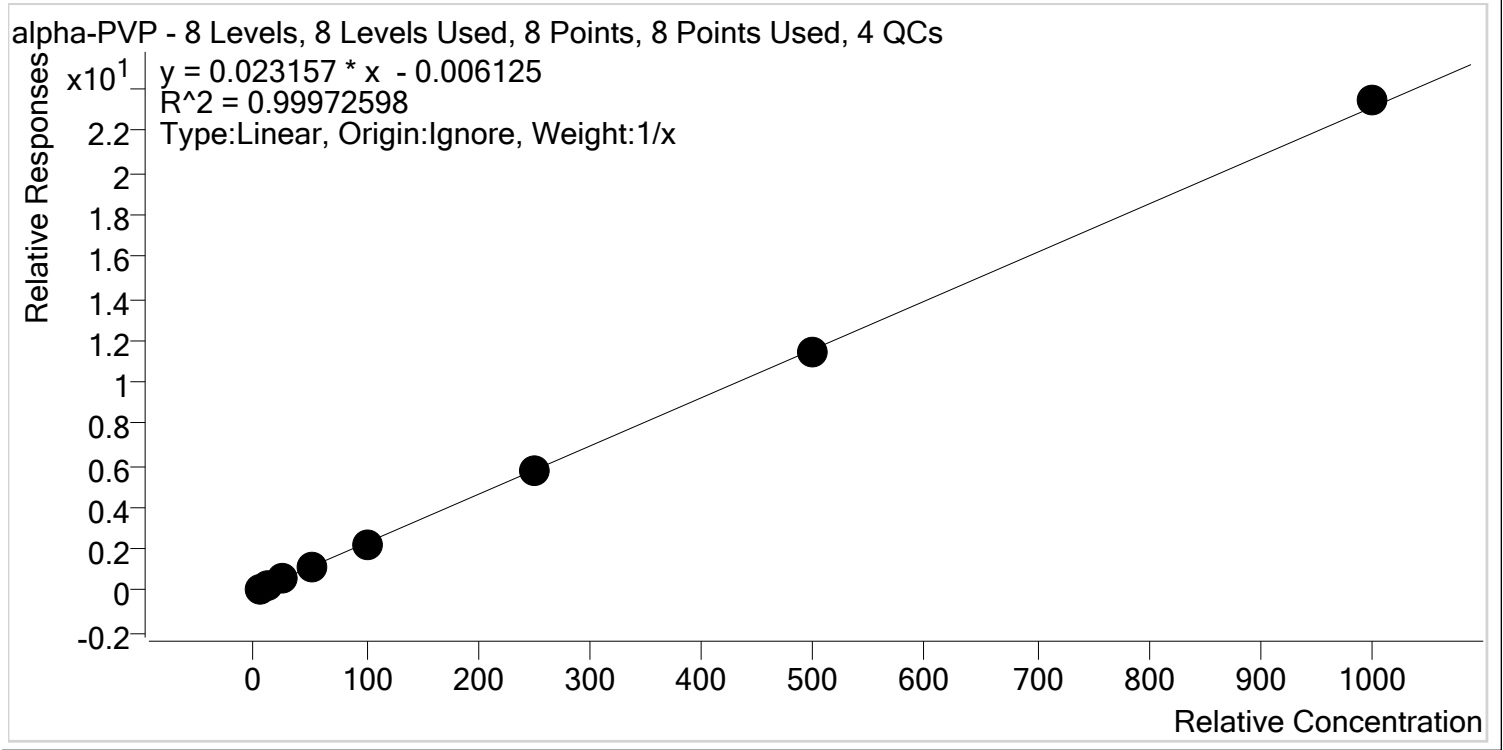


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.8	115.2
p1 Cal 2- 10ng	2	✓	10.0	9.3	93.1
p1 Cal 3 -25ng	3	✓	25.0	25.6	102.2
p1 Cal 4-50ng	4	✓	50.0	49.3	98.5
p1 Cal 5-100ng	5	✓	100.0	93.0	93.0
p1 Cal 6-250ng	6	✓	250.0	244.1	97.7
p1 Cal 7-500ng	7	✓	500.0	489.8	98.0
p1 Cal 8-1000ng	8	✓	1000.0	1023.2	102.3



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte alpha-PVP **Internal Standard** alpha-PVP-d8

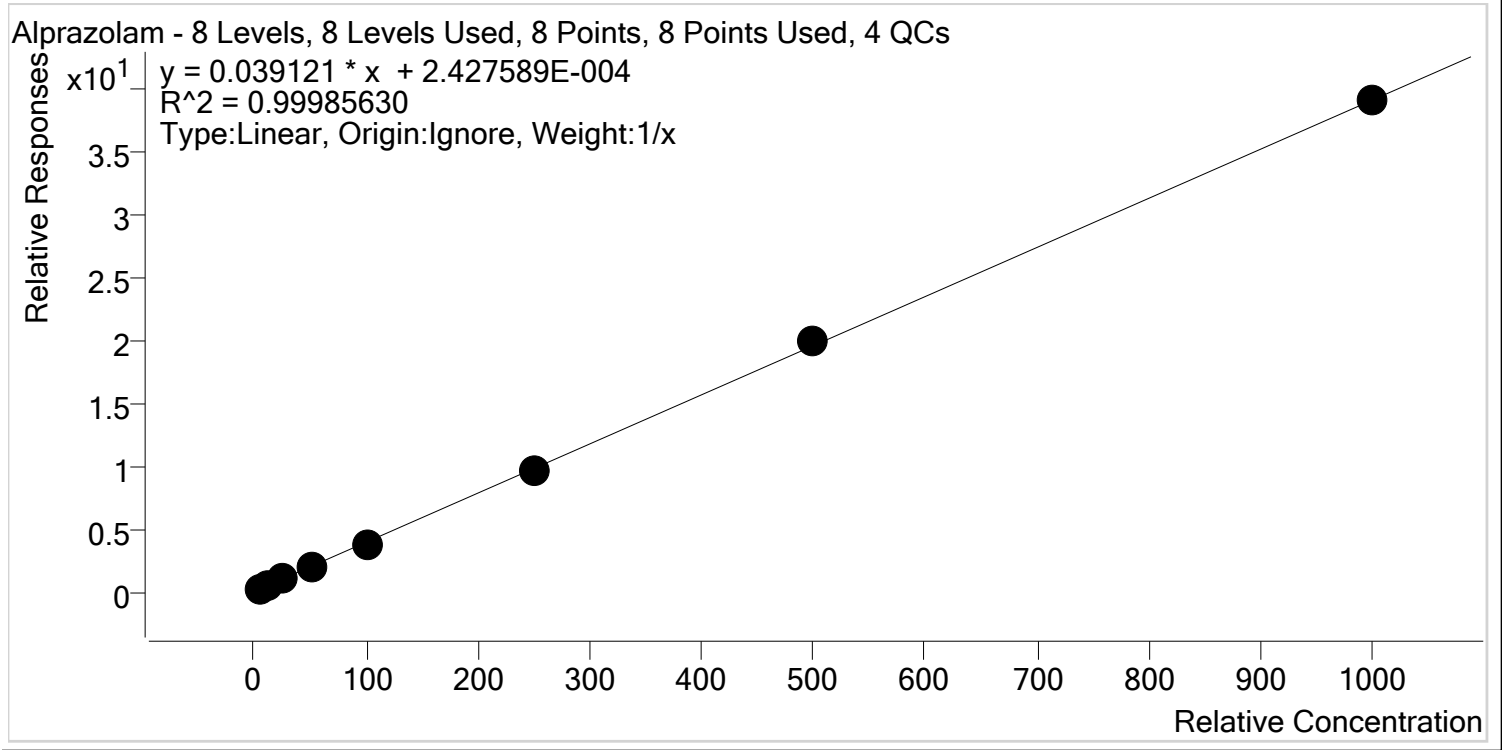


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.3	106.2
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.6
p1 Cal 3 -25ng	3	✓	25.0	24.5	97.9
p1 Cal 4-50ng	4	✓	50.0	49.6	99.2
p1 Cal 5-100ng	5	✓	100.0	96.7	96.7
p1 Cal 6-250ng	6	✓	250.0	245.4	98.2
p1 Cal 7-500ng	7	✓	500.0	494.4	98.9
p1 Cal 8-1000ng	8	✓	1000.0	1014.0	101.4



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte Alprazolam **Internal Standard** Alprazolam-D5

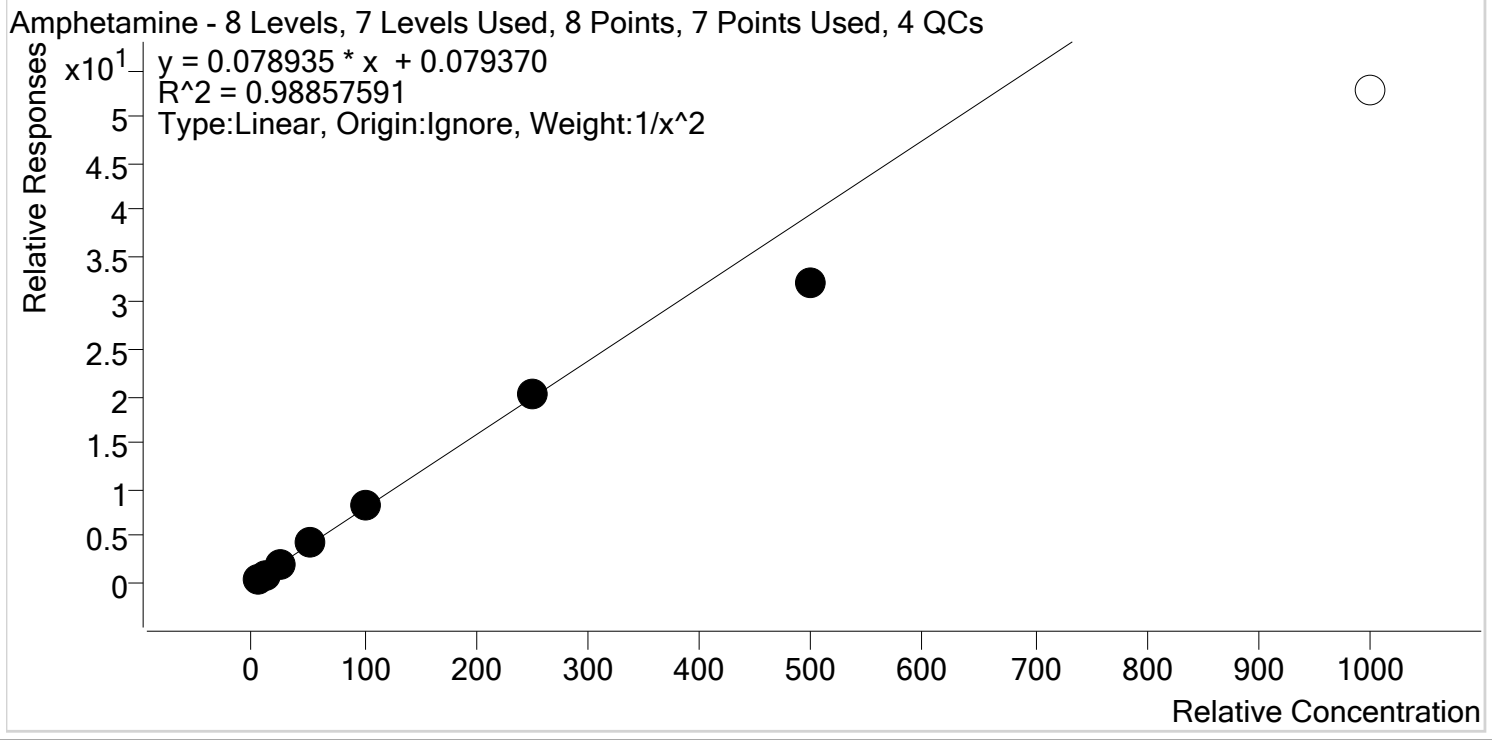


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.2	104.9
p1 Cal 2- 10ng	2	✓	10.0	9.8	98.3
p1 Cal 3 -25ng	3	✓	25.0	24.8	99.3
p1 Cal 4-50ng	4	✓	50.0	50.5	100.9
p1 Cal 5-100ng	5	✓	100.0	96.1	96.1
p1 Cal 6-250ng	6	✓	250.0	248.4	99.3
p1 Cal 7-500ng	7	✓	500.0	506.0	101.2
p1 Cal 8-1000ng	8	✓	1000.0	999.1	99.9



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte Amphetamine **Internal Standard** Amphetamine-D11



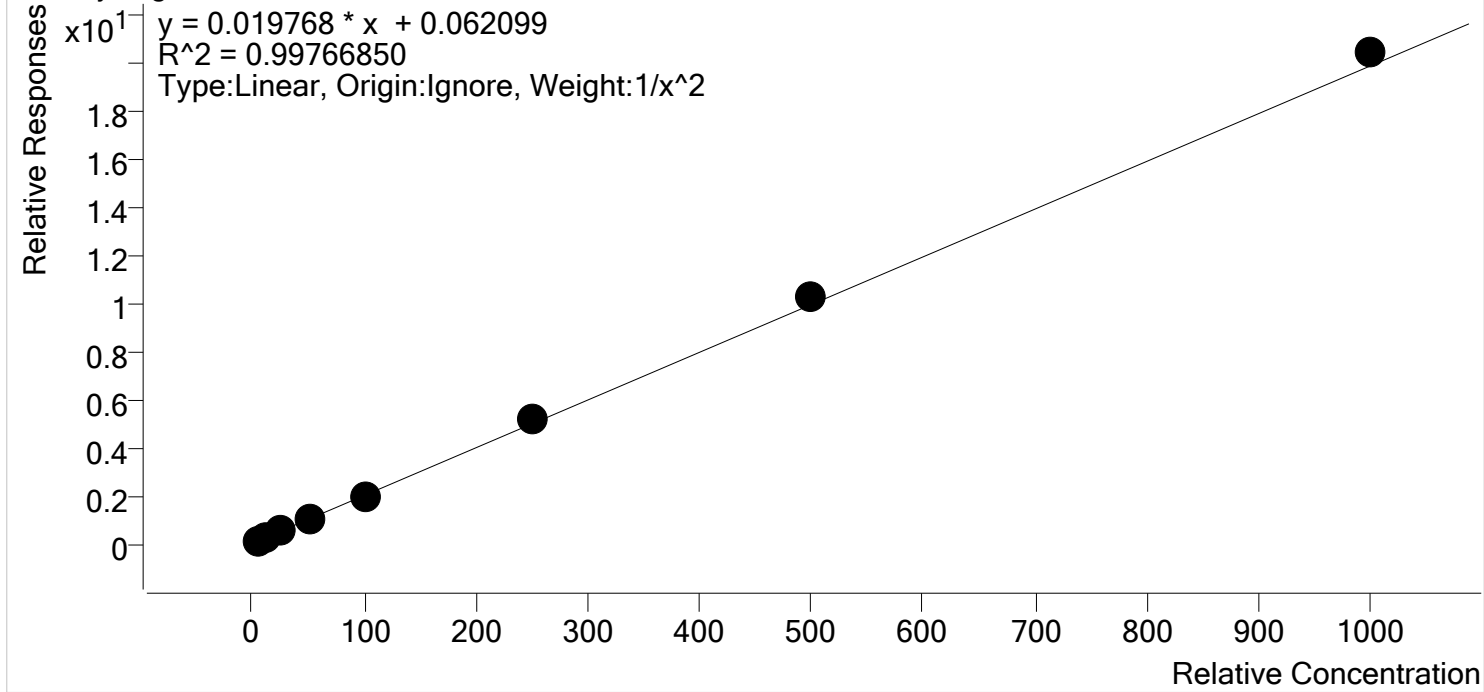
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.3
p1 Cal 2- 10ng	2	✓	10.0	10.4	103.6
p1 Cal 3 -25ng	3	✓	25.0	26.4	105.5
p1 Cal 4-50ng	4	✓	50.0	53.8	107.5
p1 Cal 5-100ng	5	✓	100.0	104.0	104.0
p1 Cal 6-250ng	6	✓	250.0	255.4	102.2
p1 Cal 7-500ng	7	✓	500.0	404.9	81.0
p1 Cal 8-1000ng	8	✗	1000.0	667.3	66.7



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte Benzoylecgonine **Internal Standard** Benzoylecgonine-d8

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



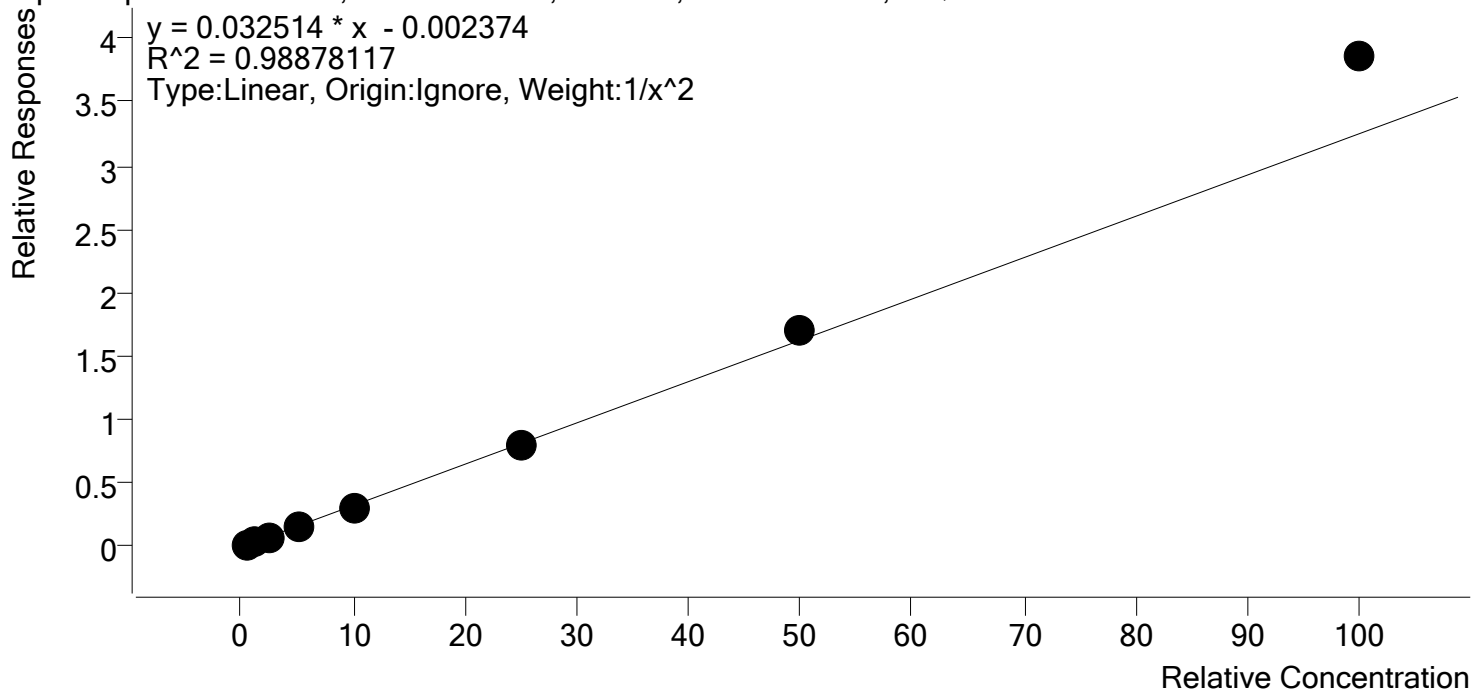
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.2	104.6
p1 Cal 2- 10ng	2	✓	10.0	9.3	92.6
p1 Cal 3 -25ng	3	✓	25.0	23.9	95.5
p1 Cal 4-50ng	4	✓	50.0	50.0	99.9
p1 Cal 5-100ng	5	✓	100.0	98.7	98.7
p1 Cal 6-250ng	6	✓	250.0	258.1	103.2
p1 Cal 7-500ng	7	✓	500.0	513.6	102.7
p1 Cal 8-1000ng	8	✓	1000.0	1028.1	102.8



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte Buprenorphine **Internal Standard** Buprenorphine-D4

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

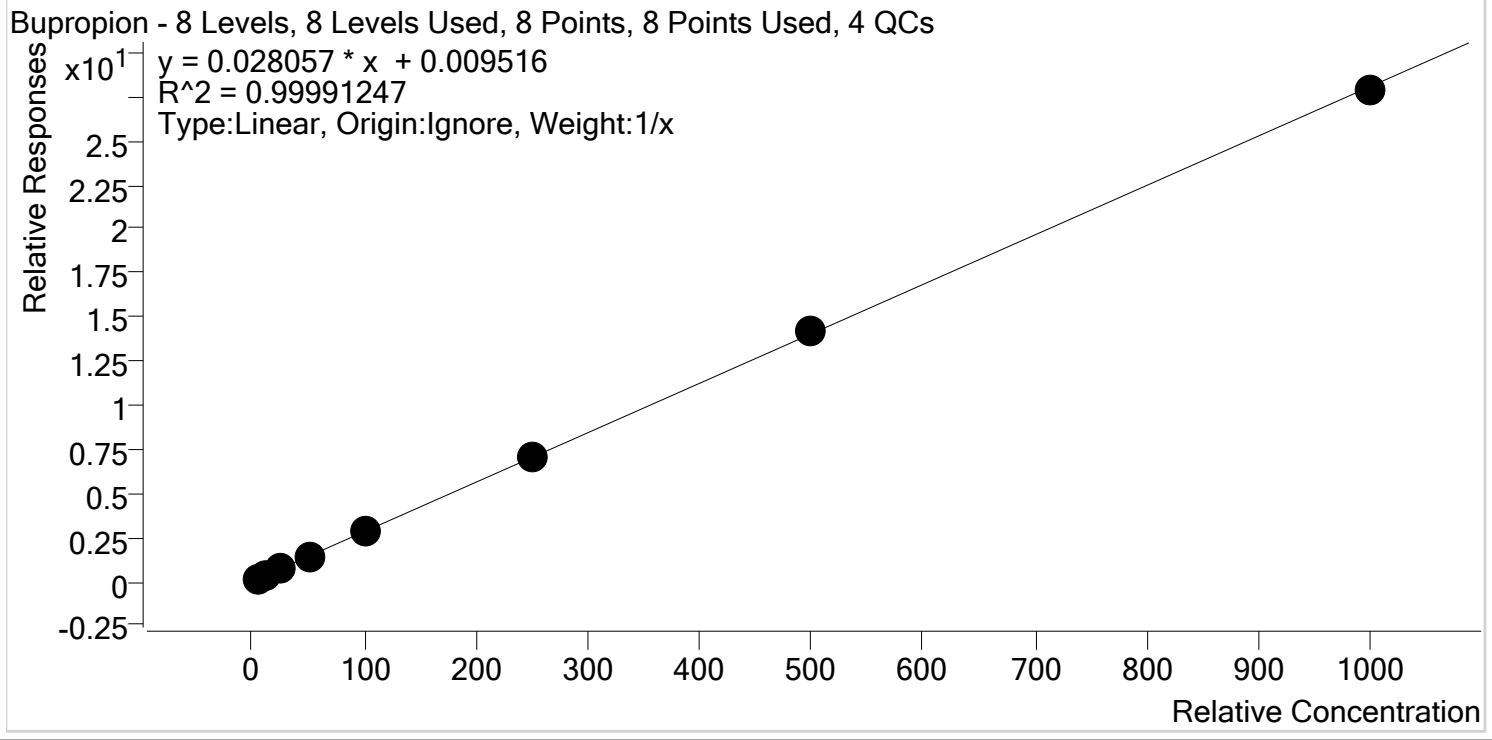


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	103.5
p1 Cal 2- 10ng	2	✓	1.0	1.0	98.7
p1 Cal 3 -25ng	3	✓	2.5	2.3	91.4
p1 Cal 4-50ng	4	✓	5.0	4.6	91.9
p1 Cal 5-100ng	5	✓	10.0	9.2	91.8
p1 Cal 6-250ng	6	✓	25.0	24.7	98.8
p1 Cal 7-500ng	7	✓	50.0	52.6	105.2
p1 Cal 8-1000ng	8	✓	100.0	118.7	118.7



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte Bupropion **Internal Standard** Bupropion-D9



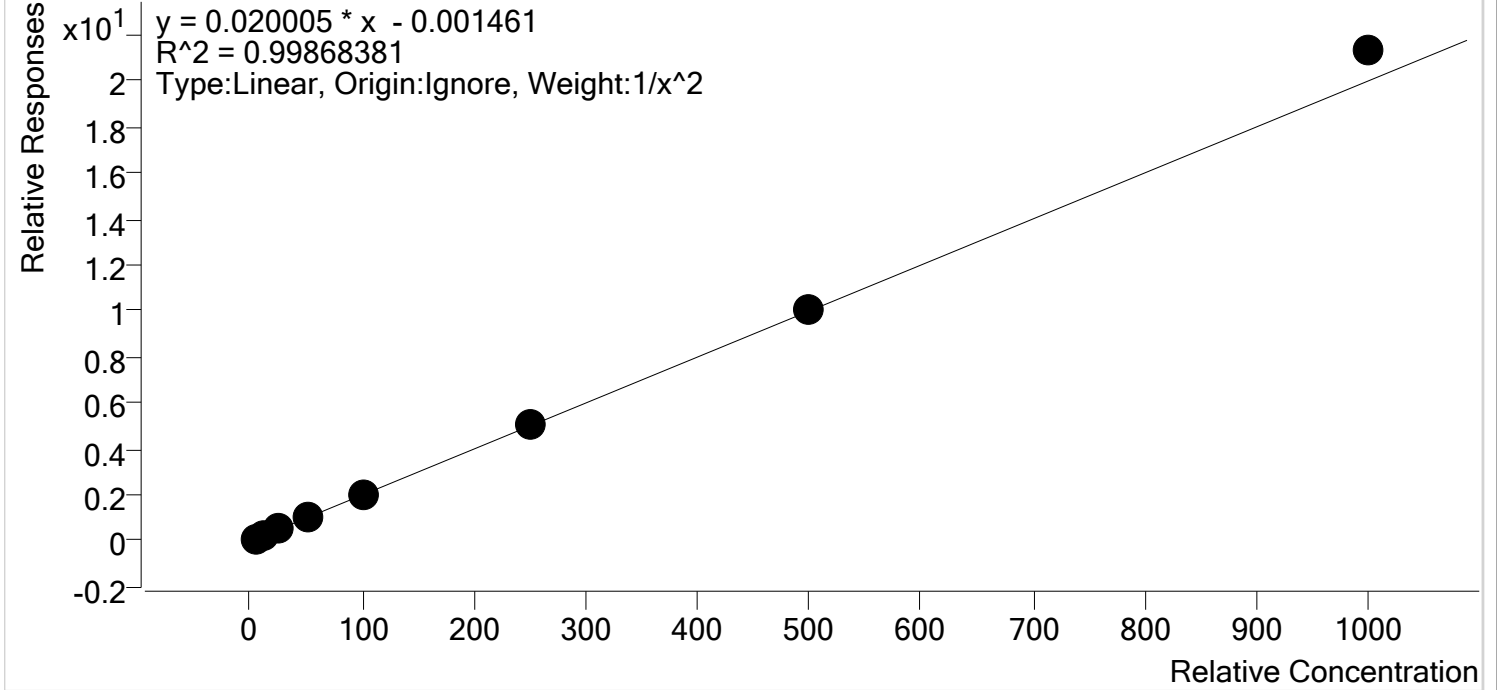
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.2
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.2
p1 Cal 3 -25ng	3	✓	25.0	25.0	100.0
p1 Cal 4-50ng	4	✓	50.0	50.6	101.2
p1 Cal 5-100ng	5	✓	100.0	100.6	100.6
p1 Cal 6-250ng	6	✓	250.0	251.2	100.5
p1 Cal 7-500ng	7	✓	500.0	506.0	101.2
p1 Cal 8-1000ng	8	✓	1000.0	991.9	99.2



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte Carisoprodol **Internal Standard** Carisoprodol-D7

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

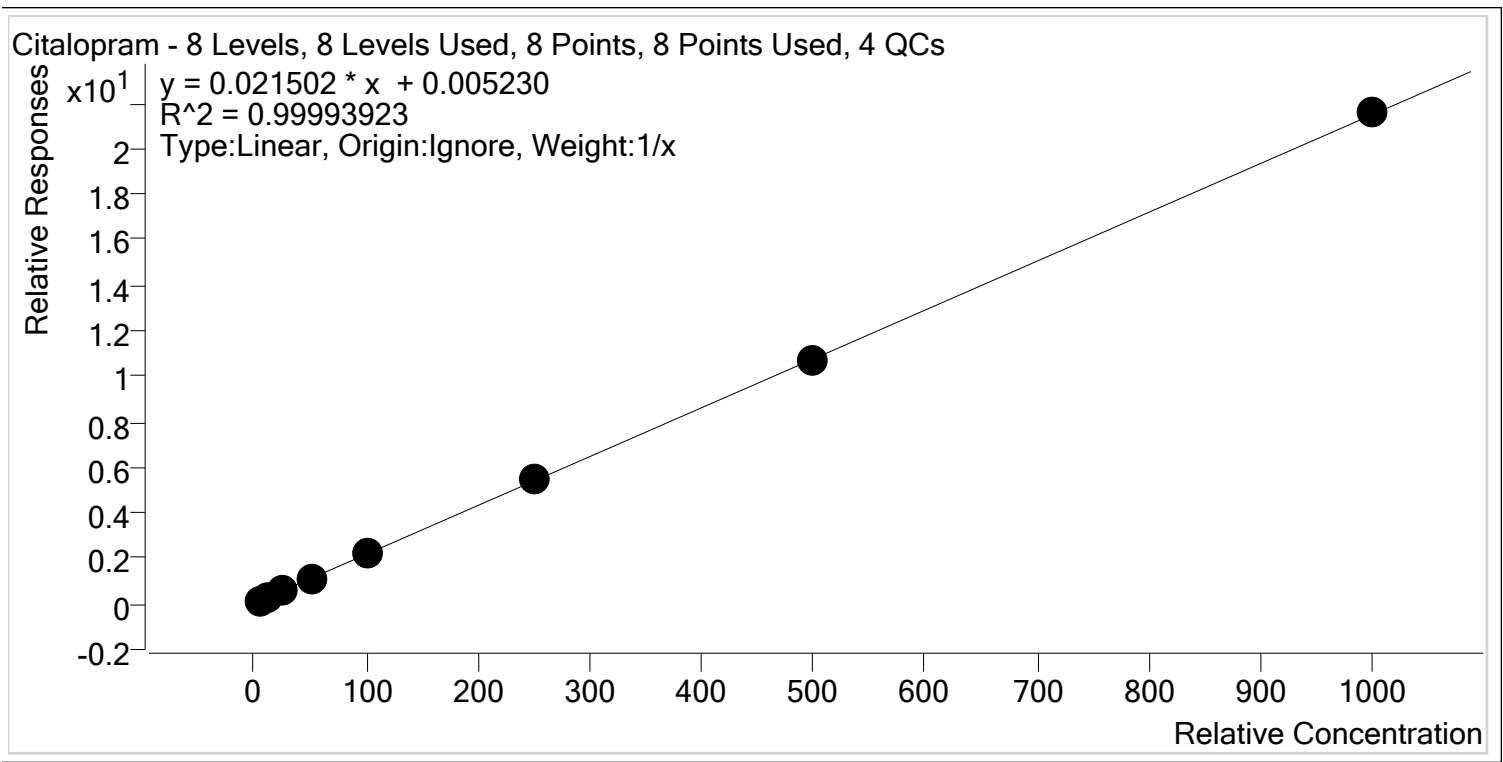


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.6
p1 Cal 2- 10ng	2	✓	10.0	9.8	98.5
p1 Cal 3 -25ng	3	✓	25.0	24.3	97.3
p1 Cal 4-50ng	4	✓	50.0	48.8	97.7
p1 Cal 5-100ng	5	✓	100.0	97.3	97.3
p1 Cal 6-250ng	6	✓	250.0	250.6	100.3
p1 Cal 7-500ng	7	✓	500.0	504.1	100.8
p1 Cal 8-1000ng	8	✓	1000.0	1066.0	106.6



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte Citalopram **Internal Standard** Citalopram-D6

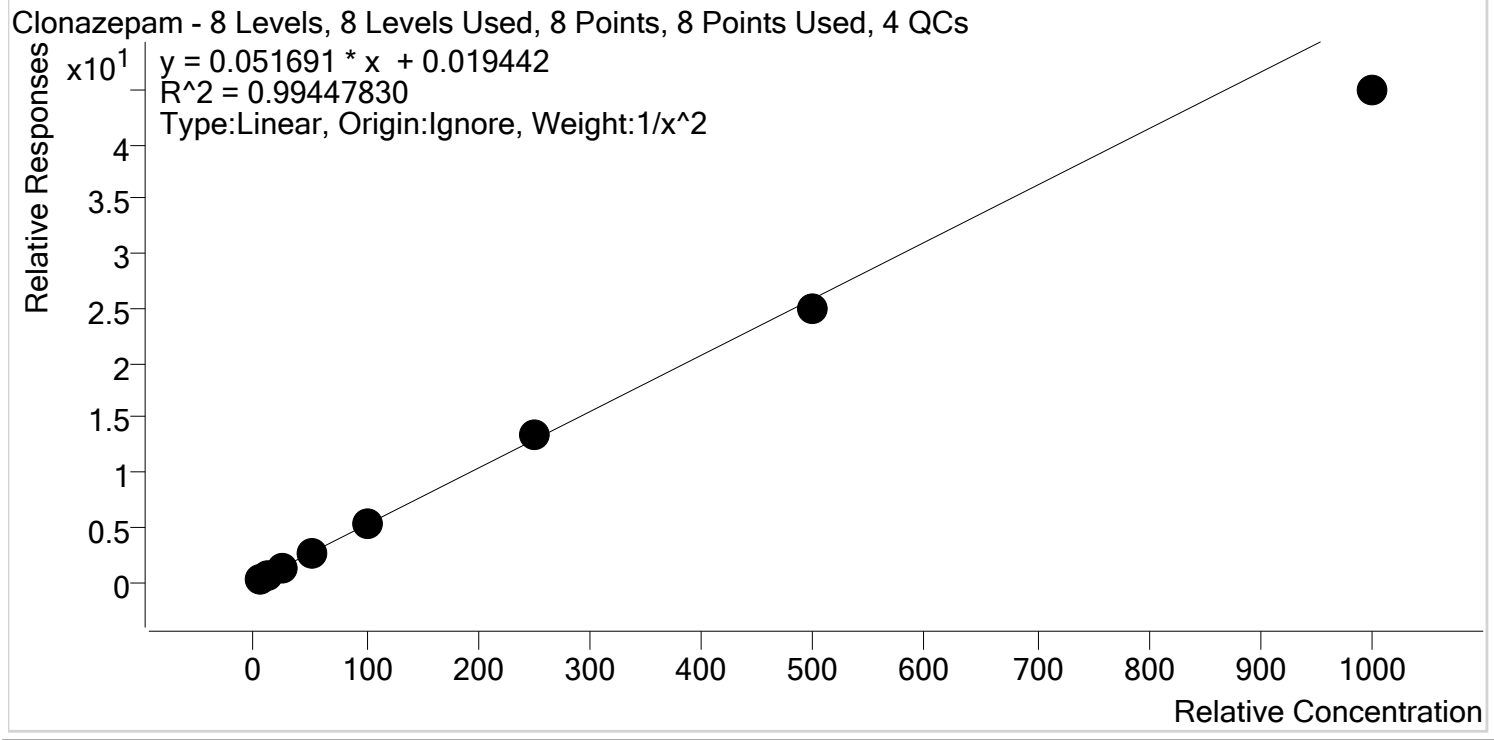


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.0
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.2
p1 Cal 3 -25ng	3	✓	25.0	24.8	99.0
p1 Cal 4-50ng	4	✓	50.0	50.3	100.6
p1 Cal 5-100ng	5	✓	100.0	100.6	100.6
p1 Cal 6-250ng	6	✓	250.0	251.2	100.5
p1 Cal 7-500ng	7	✓	500.0	493.8	98.8
p1 Cal 8-1000ng	8	✓	1000.0	1004.4	100.4



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte Clonazepam **Internal Standard** Clonazepam-D4

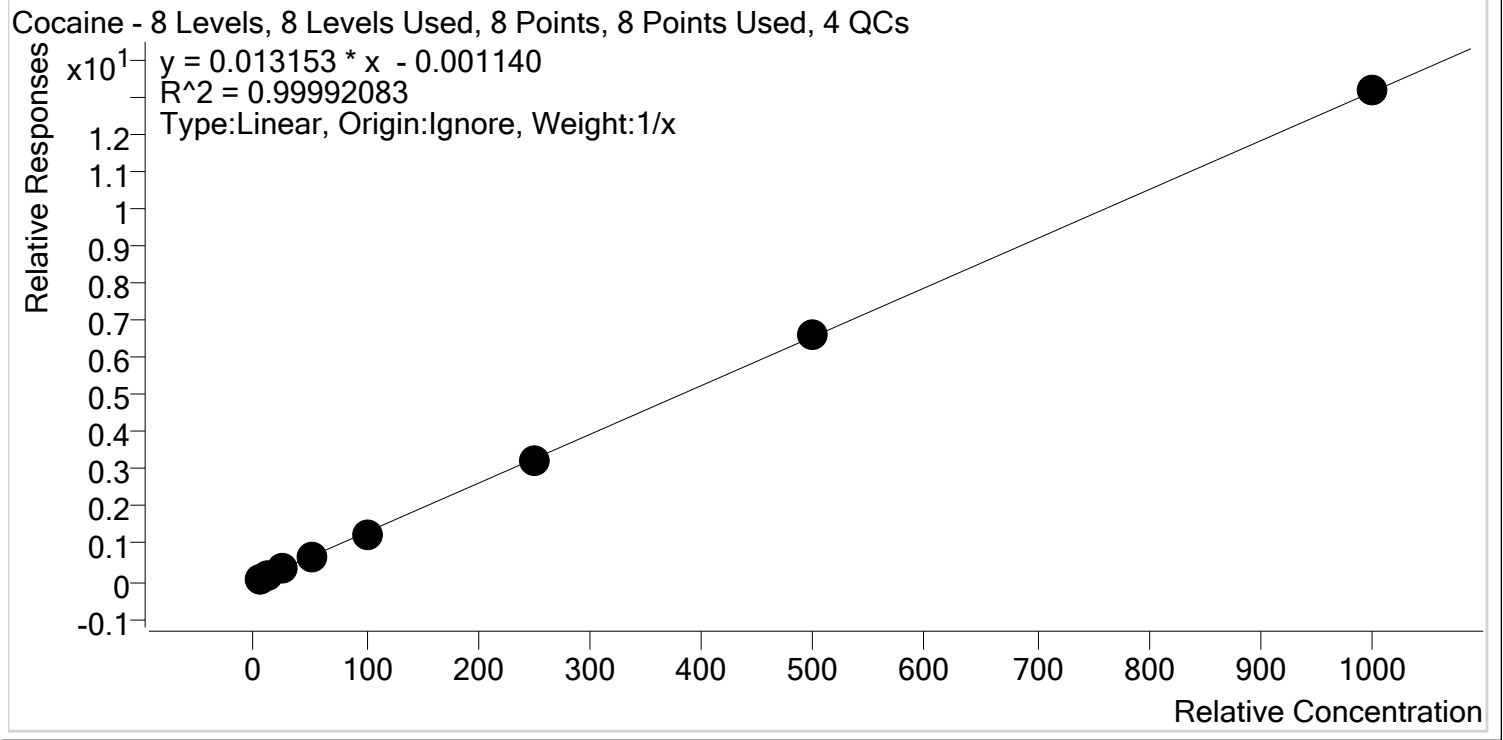


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.1
p1 Cal 2- 10ng	2	✓	10.0	10.5	105.1
p1 Cal 3 -25ng	3	✓	25.0	25.9	103.7
p1 Cal 4-50ng	4	✓	50.0	52.0	104.0
p1 Cal 5-100ng	5	✓	100.0	105.3	105.3
p1 Cal 6-250ng	6	✓	250.0	256.6	102.6
p1 Cal 7-500ng	7	✓	500.0	482.4	96.5
p1 Cal 8-1000ng	8	✓	1000.0	867.7	86.8



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte Cocaine **Internal Standard** Cocaine-d3

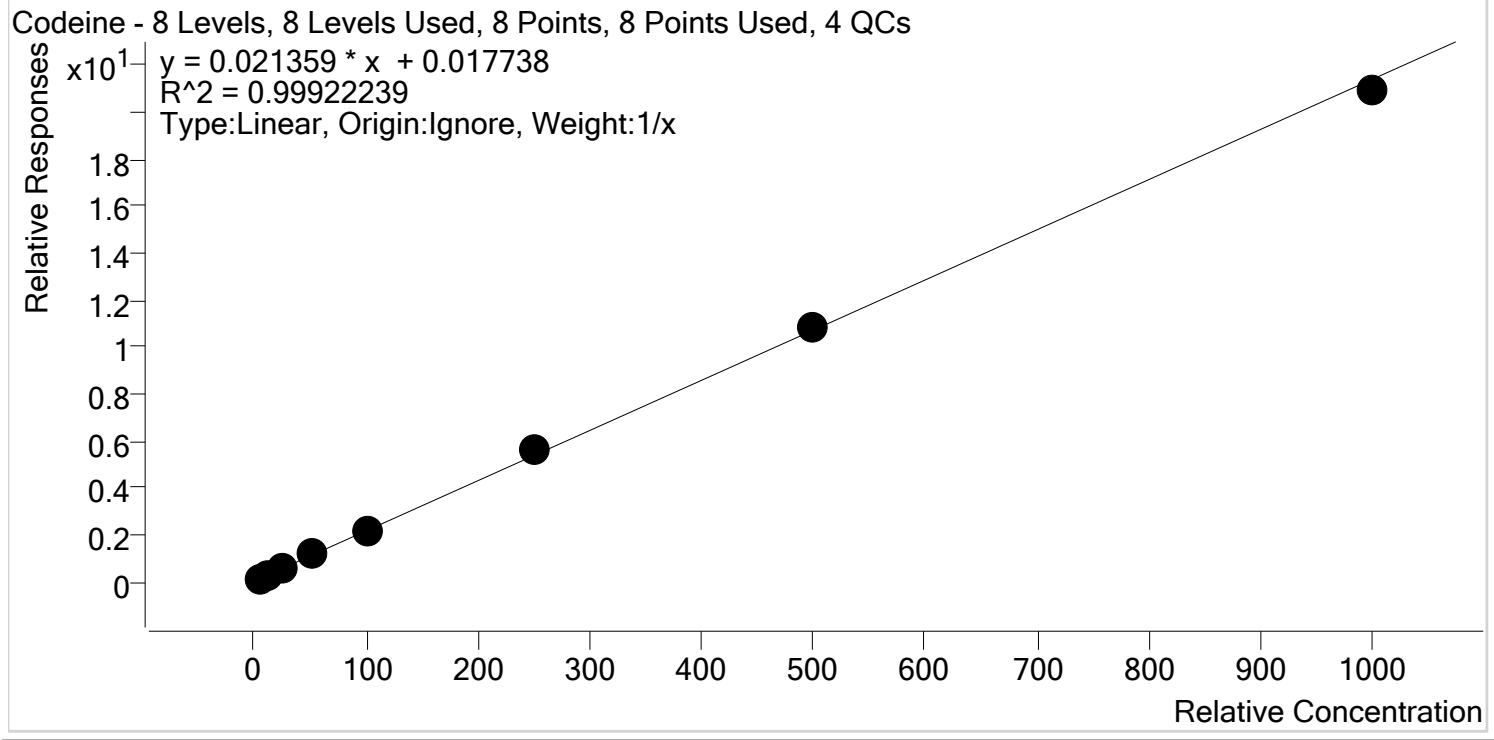


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.2	103.9
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.9
p1 Cal 3 -25ng	3	✓	25.0	24.4	97.7
p1 Cal 4-50ng	4	✓	50.0	49.6	99.3
p1 Cal 5-100ng	5	✓	100.0	97.1	97.1
p1 Cal 6-250ng	6	✓	250.0	248.5	99.4
p1 Cal 7-500ng	7	✓	500.0	502.2	100.4
p1 Cal 8-1000ng	8	✓	1000.0	1002.8	100.3



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte Codeine **Internal Standard** Codeine-D6

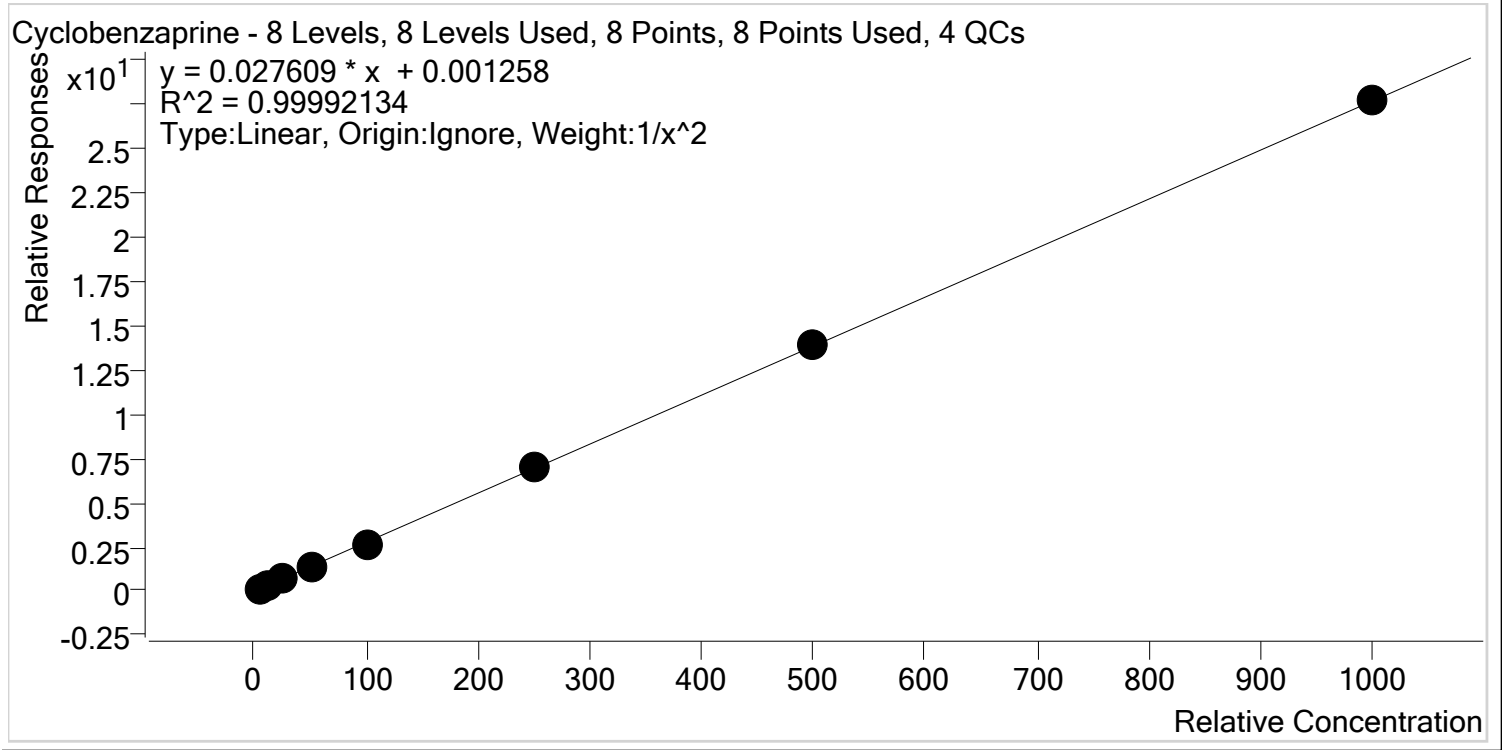


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.5	90.2
p1 Cal 2- 10ng	2	✓	10.0	9.7	97.4
p1 Cal 3 -25ng	3	✓	25.0	25.5	102.2
p1 Cal 4-50ng	4	✓	50.0	52.0	104.0
p1 Cal 5-100ng	5	✓	100.0	102.4	102.4
p1 Cal 6-250ng	6	✓	250.0	262.2	104.9
p1 Cal 7-500ng	7	✓	500.0	506.0	101.2
p1 Cal 8-1000ng	8	✓	1000.0	977.6	97.8



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte Cyclobenzaprine **Internal Standard** Cyclobenzaprine-D3

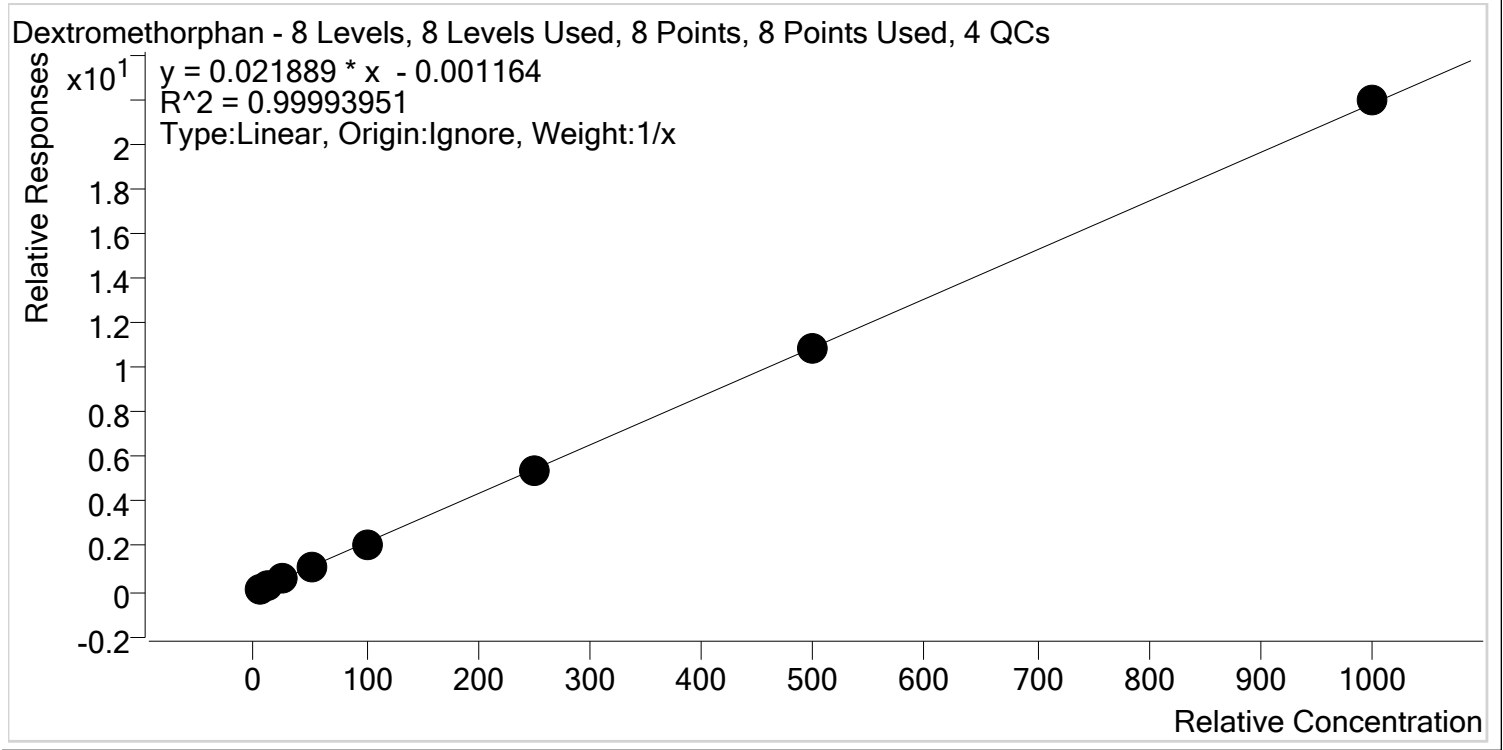


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.9
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.4
p1 Cal 3 -25ng	3	✓	25.0	25.0	100.0
p1 Cal 4-50ng	4	✓	50.0	50.0	100.0
p1 Cal 5-100ng	5	✓	100.0	98.3	98.3
p1 Cal 6-250ng	6	✓	250.0	252.2	100.9
p1 Cal 7-500ng	7	✓	500.0	502.5	100.5
p1 Cal 8-1000ng	8	✓	1000.0	1001.2	100.1



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte Dextromethorphan **Internal Standard** Dextromethorphan-D3

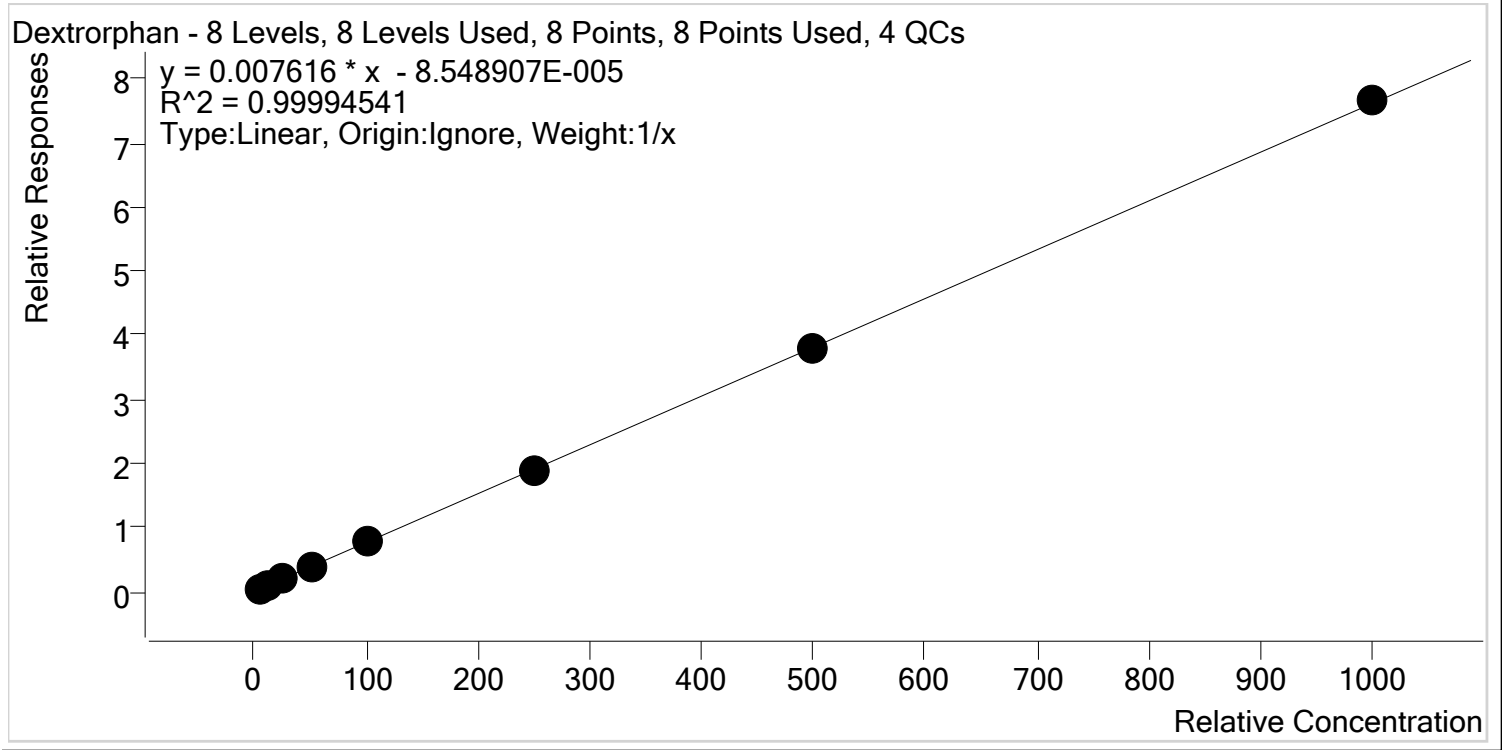


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.2	103.3
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.5
p1 Cal 3 -25ng	3	✓	25.0	25.0	100.0
p1 Cal 4-50ng	4	✓	50.0	49.5	99.1
p1 Cal 5-100ng	5	✓	100.0	98.5	98.5
p1 Cal 6-250ng	6	✓	250.0	249.0	99.6
p1 Cal 7-500ng	7	✓	500.0	496.3	99.3
p1 Cal 8-1000ng	8	✓	1000.0	1006.5	100.7



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte Dextrorphan **Internal Standard** Dextrorphan-D3

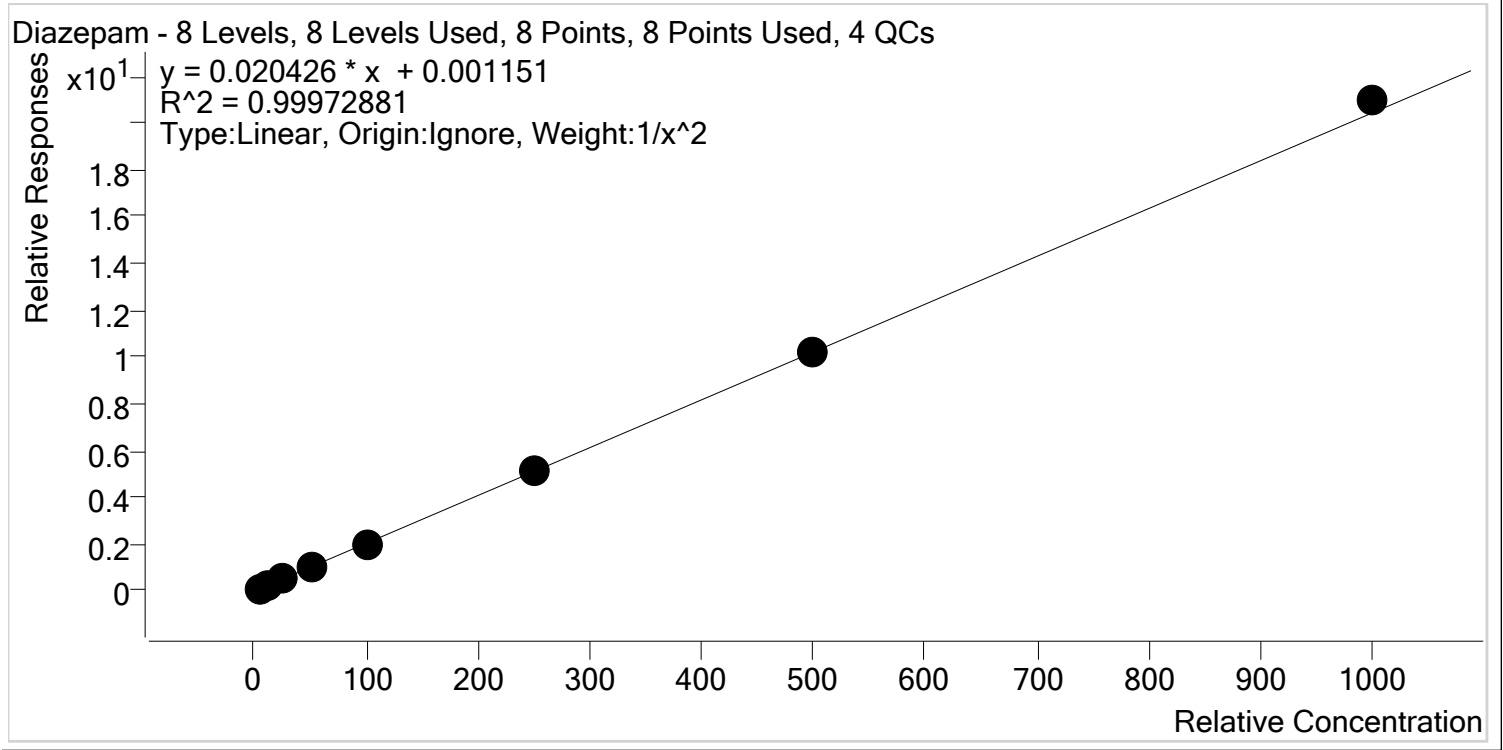


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	102.0
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.2
p1 Cal 3 -25ng	3	✓	25.0	24.6	98.6
p1 Cal 4-50ng	4	✓	50.0	50.4	100.9
p1 Cal 5-100ng	5	✓	100.0	98.9	98.9
p1 Cal 6-250ng	6	✓	250.0	249.2	99.7
p1 Cal 7-500ng	7	✓	500.0	495.7	99.1
p1 Cal 8-1000ng	8	✓	1000.0	1005.9	100.6



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte Diazepam **Internal Standard** Diazepam-D5

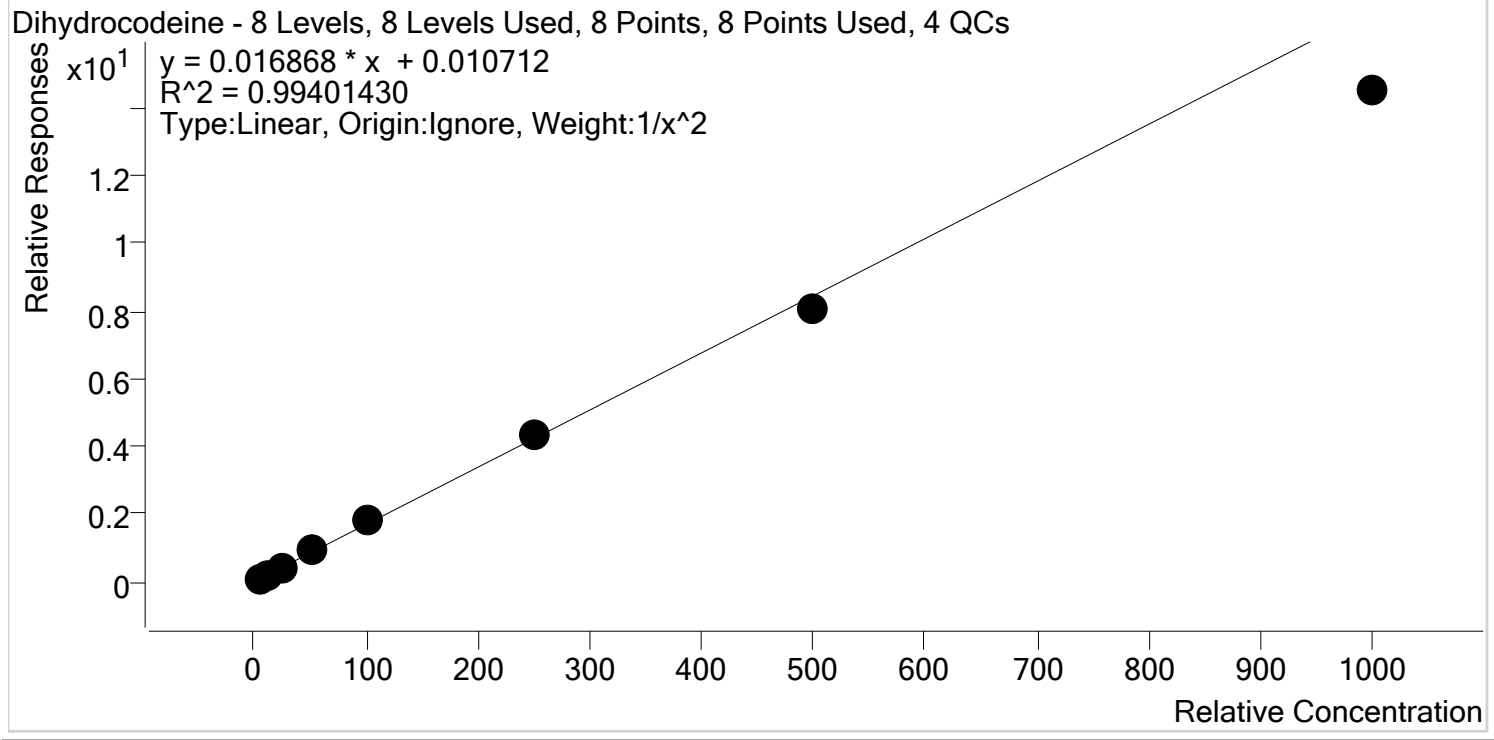


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.5
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.0
p1 Cal 3 -25ng	3	✓	25.0	25.0	100.1
p1 Cal 4-50ng	4	✓	50.0	50.4	100.8
p1 Cal 5-100ng	5	✓	100.0	97.7	97.7
p1 Cal 6-250ng	6	✓	250.0	248.5	99.4
p1 Cal 7-500ng	7	✓	500.0	499.4	99.9
p1 Cal 8-1000ng	8	✓	1000.0	1025.9	102.6



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte Dihydrocodeine **Internal Standard** Dihydrocodeine-D6

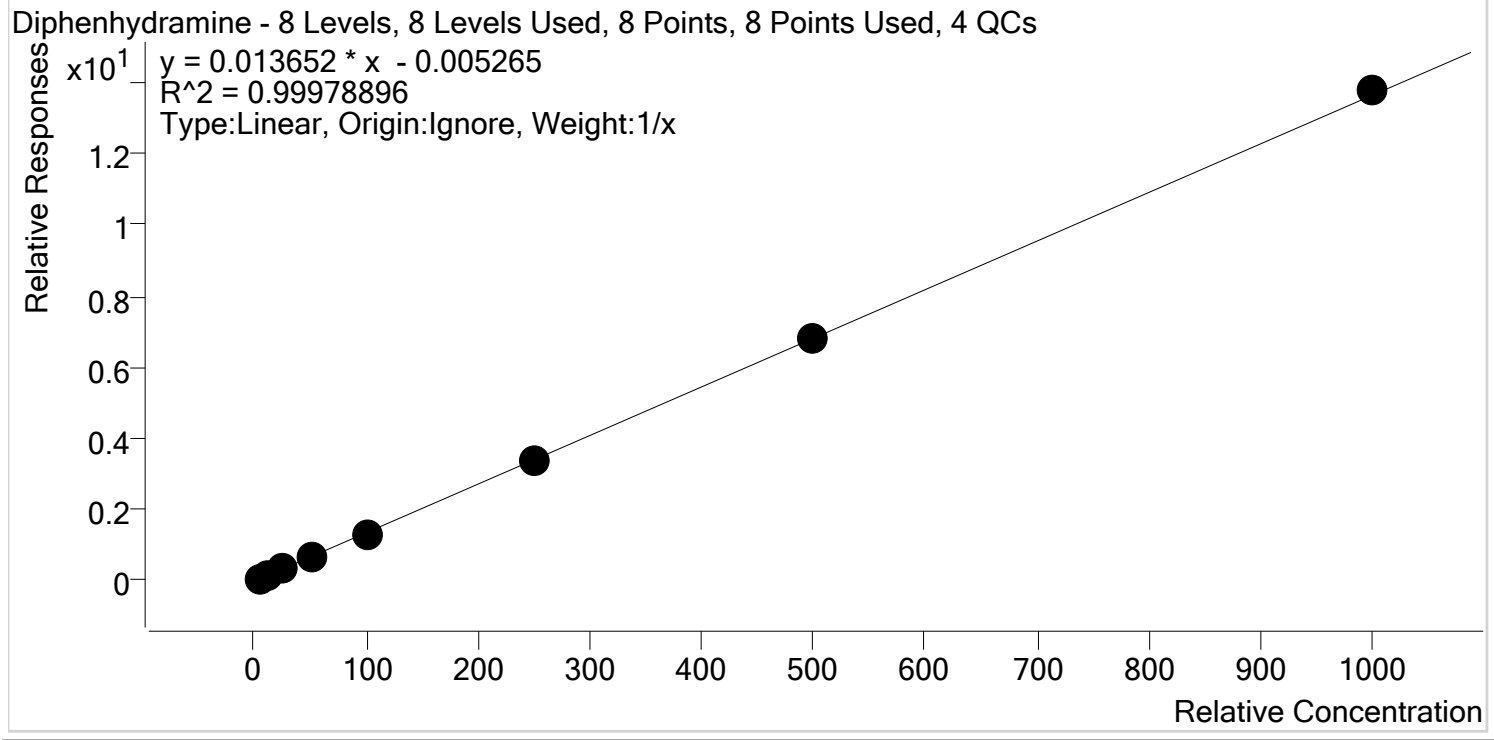


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.6
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.3
p1 Cal 3 -25ng	3	✓	25.0	26.2	104.8
p1 Cal 4-50ng	4	✓	50.0	53.2	106.3
p1 Cal 5-100ng	5	✓	100.0	104.8	104.8
p1 Cal 6-250ng	6	✓	250.0	258.1	103.2
p1 Cal 7-500ng	7	✓	500.0	480.5	96.1
p1 Cal 8-1000ng	8	✓	1000.0	859.0	85.9



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte Diphenhydramine **Internal Standard** Diphenhydramine-D3

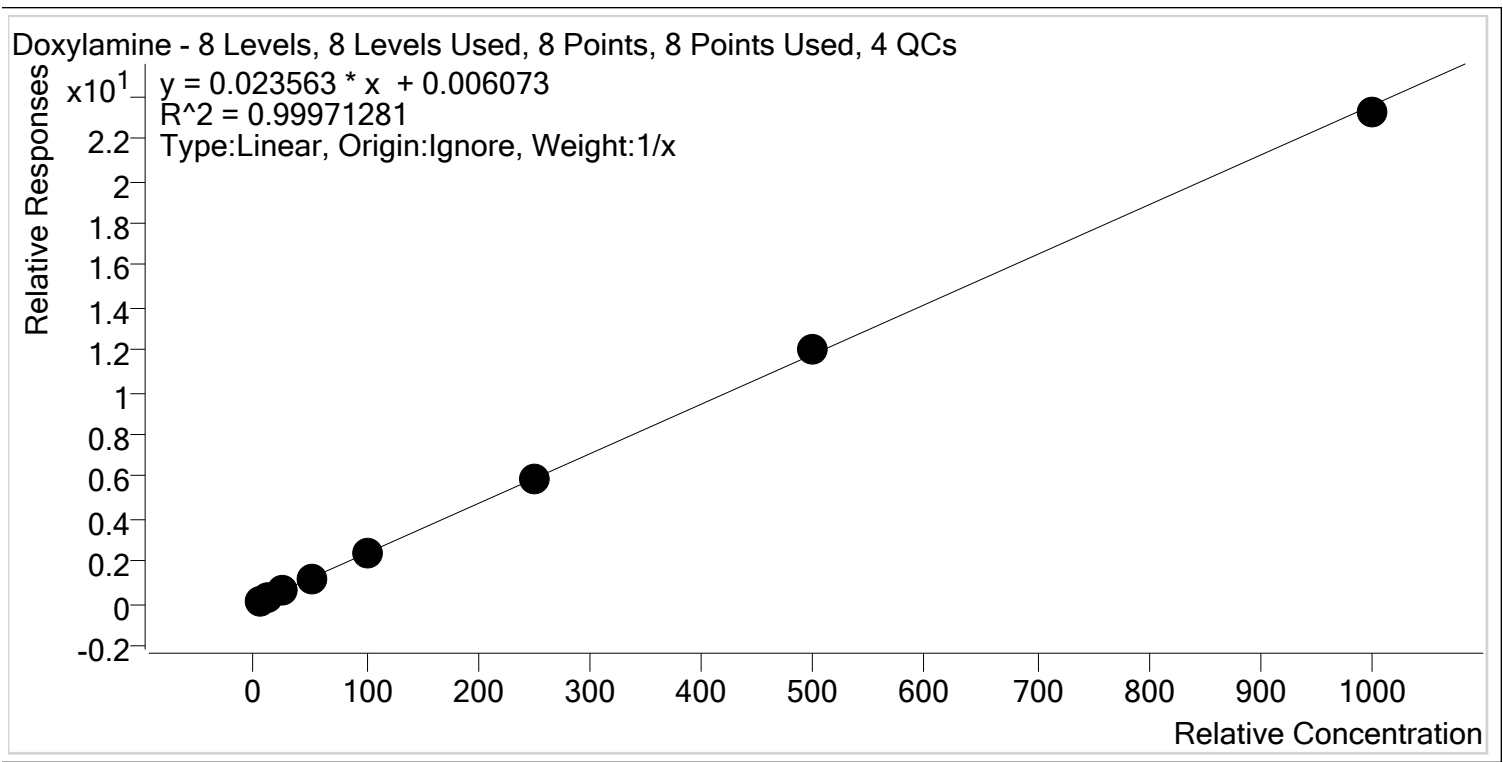


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.4	107.8
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.4
p1 Cal 3 -25ng	3	✓	25.0	24.4	97.7
p1 Cal 4-50ng	4	✓	50.0	48.8	97.6
p1 Cal 5-100ng	5	✓	100.0	96.2	96.2
p1 Cal 6-250ng	6	✓	250.0	246.1	98.4
p1 Cal 7-500ng	7	✓	500.0	499.1	99.8
p1 Cal 8-1000ng	8	✓	1000.0	1009.8	101.0



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte Doxylamine **Internal Standard** Doxylamine-D5



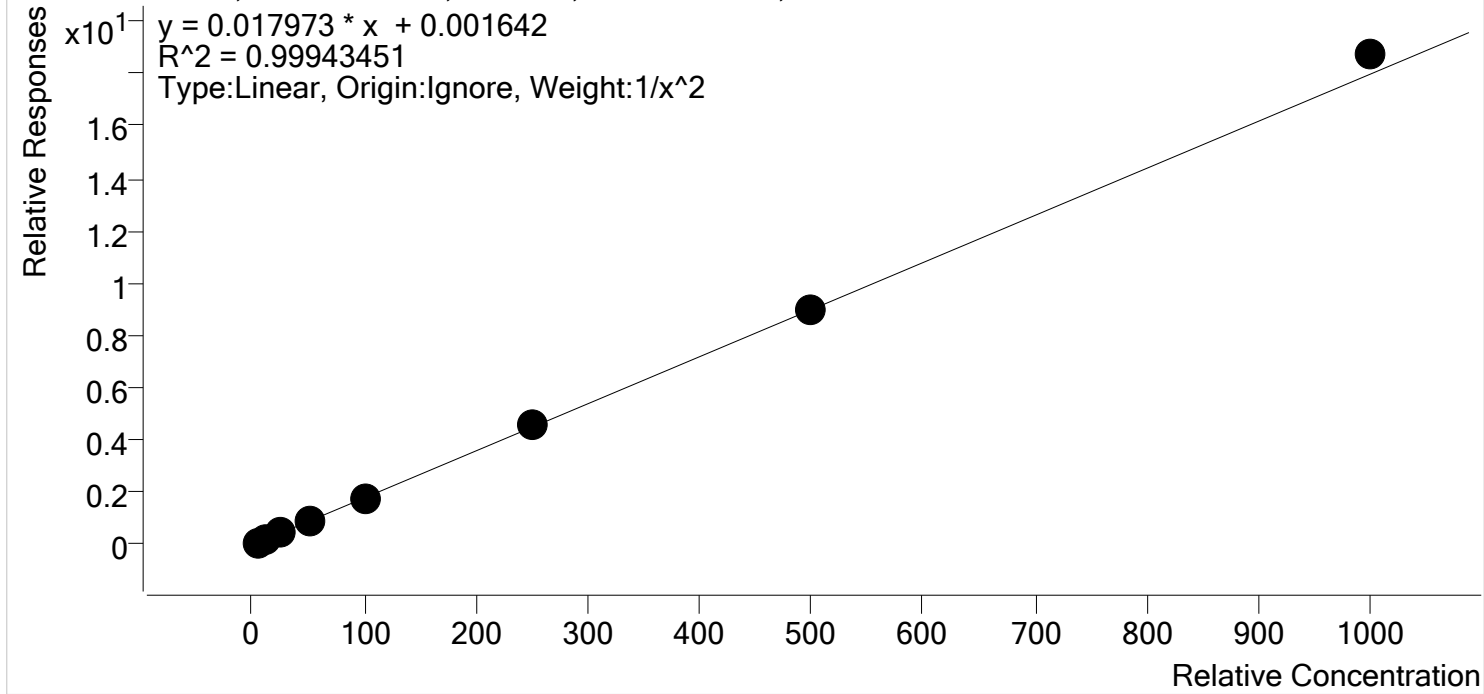
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.0
p1 Cal 2- 10ng	2	✓	10.0	9.8	98.2
p1 Cal 3 -25ng	3	✓	25.0	25.0	100.0
p1 Cal 4-50ng	4	✓	50.0	50.3	100.7
p1 Cal 5-100ng	5	✓	100.0	100.1	100.1
p1 Cal 6-250ng	6	✓	250.0	253.0	101.2
p1 Cal 7-500ng	7	✓	500.0	511.3	102.3
p1 Cal 8-1000ng	8	✓	1000.0	985.5	98.5



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte EDDP **Internal Standard** EDDP-D3

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

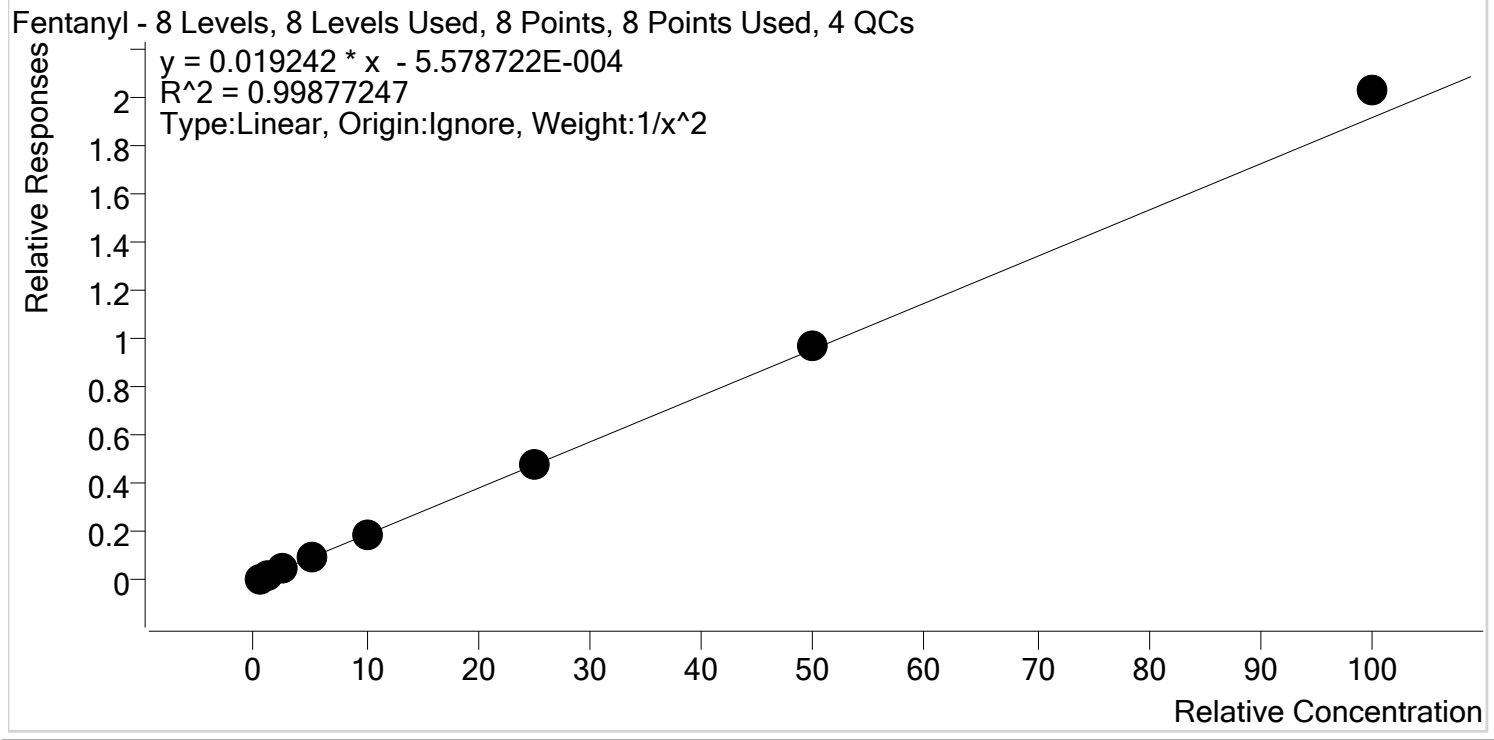


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.4
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.4
p1 Cal 3 -25ng	3	✓	25.0	24.6	98.5
p1 Cal 4-50ng	4	✓	50.0	48.8	97.7
p1 Cal 5-100ng	5	✓	100.0	98.2	98.2
p1 Cal 6-250ng	6	✓	250.0	252.6	101.0
p1 Cal 7-500ng	7	✓	500.0	498.3	99.7
p1 Cal 8-1000ng	8	✓	1000.0	1041.6	104.2



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte Fentanyl **Internal Standard** Fentanyl-D5



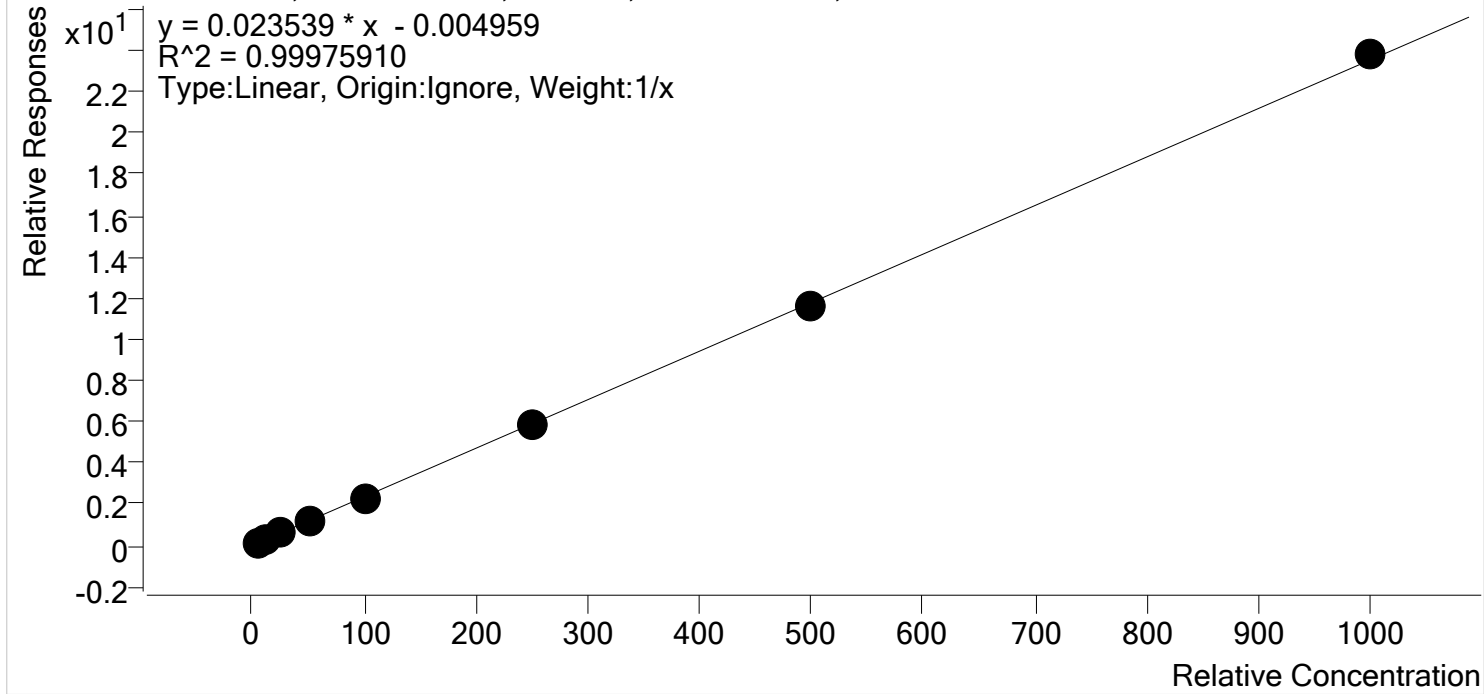
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	101.3
p1 Cal 2- 10ng	2	✓	1.0	1.0	99.2
p1 Cal 3 -25ng	3	✓	2.5	2.4	96.6
p1 Cal 4-50ng	4	✓	5.0	5.0	99.0
p1 Cal 5-100ng	5	✓	10.0	9.6	96.5
p1 Cal 6-250ng	6	✓	25.0	24.9	99.7
p1 Cal 7-500ng	7	✓	50.0	51.0	101.9
p1 Cal 8-1000ng	8	✓	100.0	105.8	105.8



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte Fluoxetine **Internal Standard** Fluoxetine-D6

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

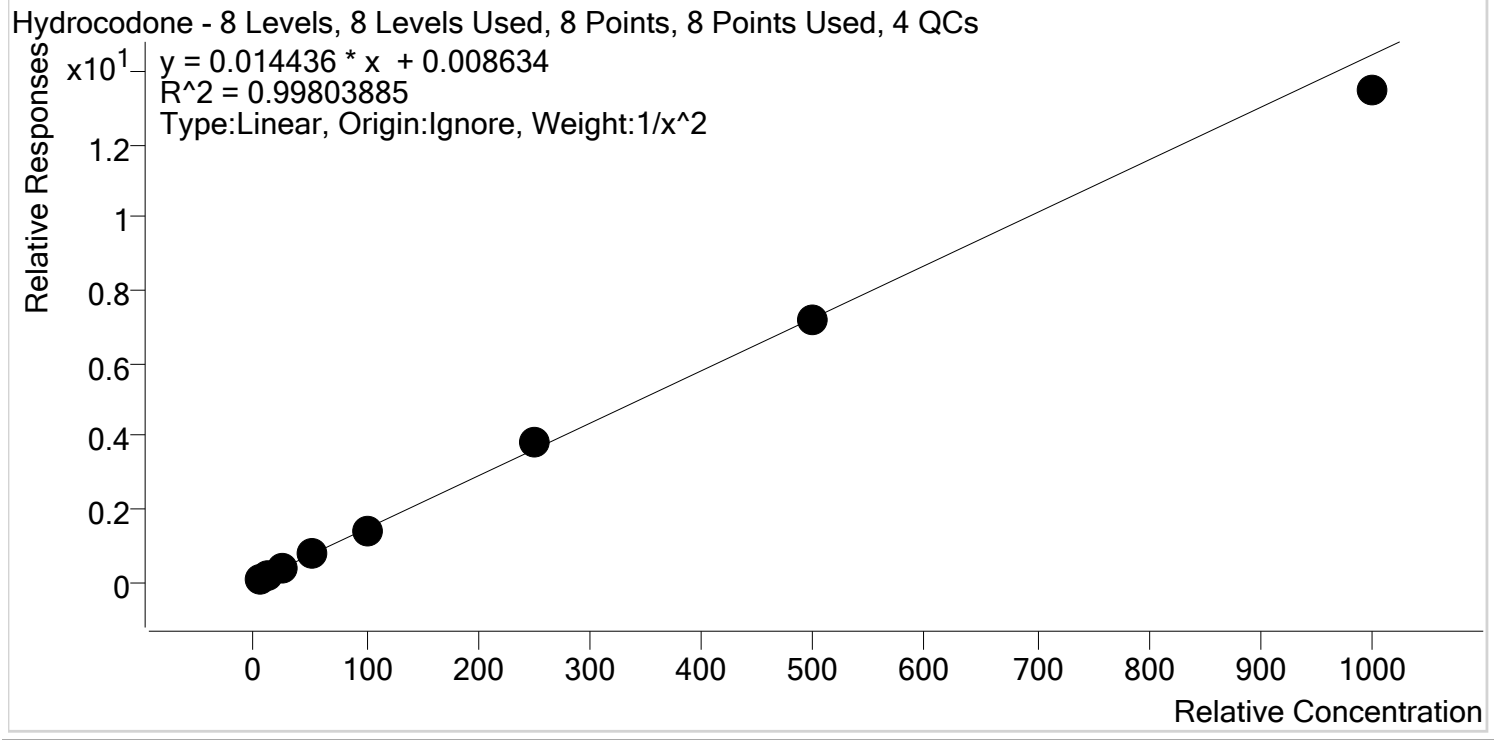


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.3	106.4
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.9
p1 Cal 3 -25ng	3	✓	25.0	24.3	97.0
p1 Cal 4-50ng	4	✓	50.0	49.9	99.9
p1 Cal 5-100ng	5	✓	100.0	95.5	95.5
p1 Cal 6-250ng	6	✓	250.0	247.3	98.9
p1 Cal 7-500ng	7	✓	500.0	496.3	99.3
p1 Cal 8-1000ng	8	✓	1000.0	1011.1	101.1



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte Hydrocodone **Internal Standard** Hydrocodone-D6

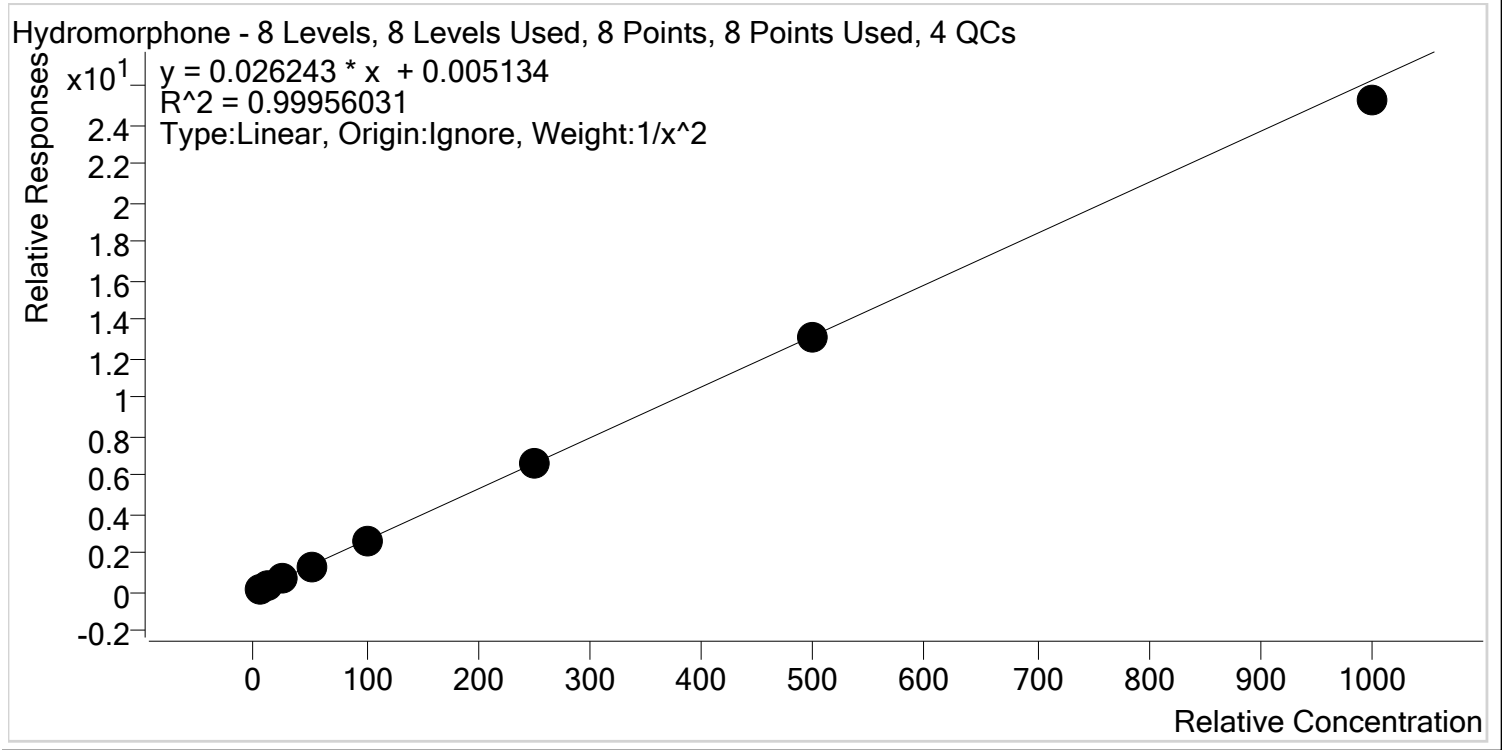


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.4
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.4
p1 Cal 3 -25ng	3	✓	25.0	25.5	101.9
p1 Cal 4-50ng	4	✓	50.0	49.8	99.6
p1 Cal 5-100ng	5	✓	100.0	98.6	98.6
p1 Cal 6-250ng	6	✓	250.0	266.3	106.5
p1 Cal 7-500ng	7	✓	500.0	496.5	99.3
p1 Cal 8-1000ng	8	✓	1000.0	932.0	93.2



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte Hydromorphone **Internal Standard** Hydromorphone-D6

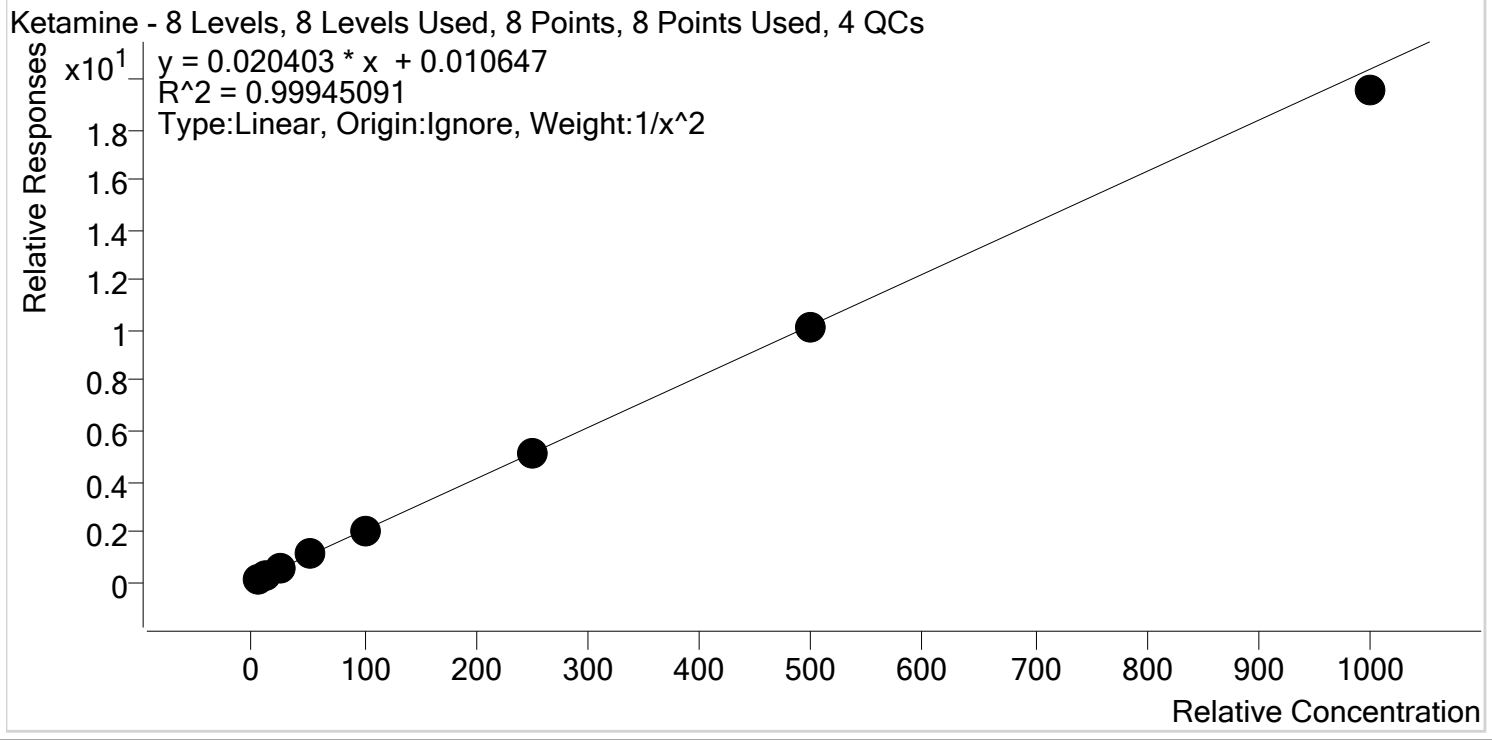


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.7
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.6
p1 Cal 3 -25ng	3	✓	25.0	25.5	101.8
p1 Cal 4-50ng	4	✓	50.0	50.8	101.6
p1 Cal 5-100ng	5	✓	100.0	100.5	100.5
p1 Cal 6-250ng	6	✓	250.0	252.4	101.0
p1 Cal 7-500ng	7	✓	500.0	499.1	99.8
p1 Cal 8-1000ng	8	✓	1000.0	960.3	96.0



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte Ketamine **Internal Standard** Ketamine-D4

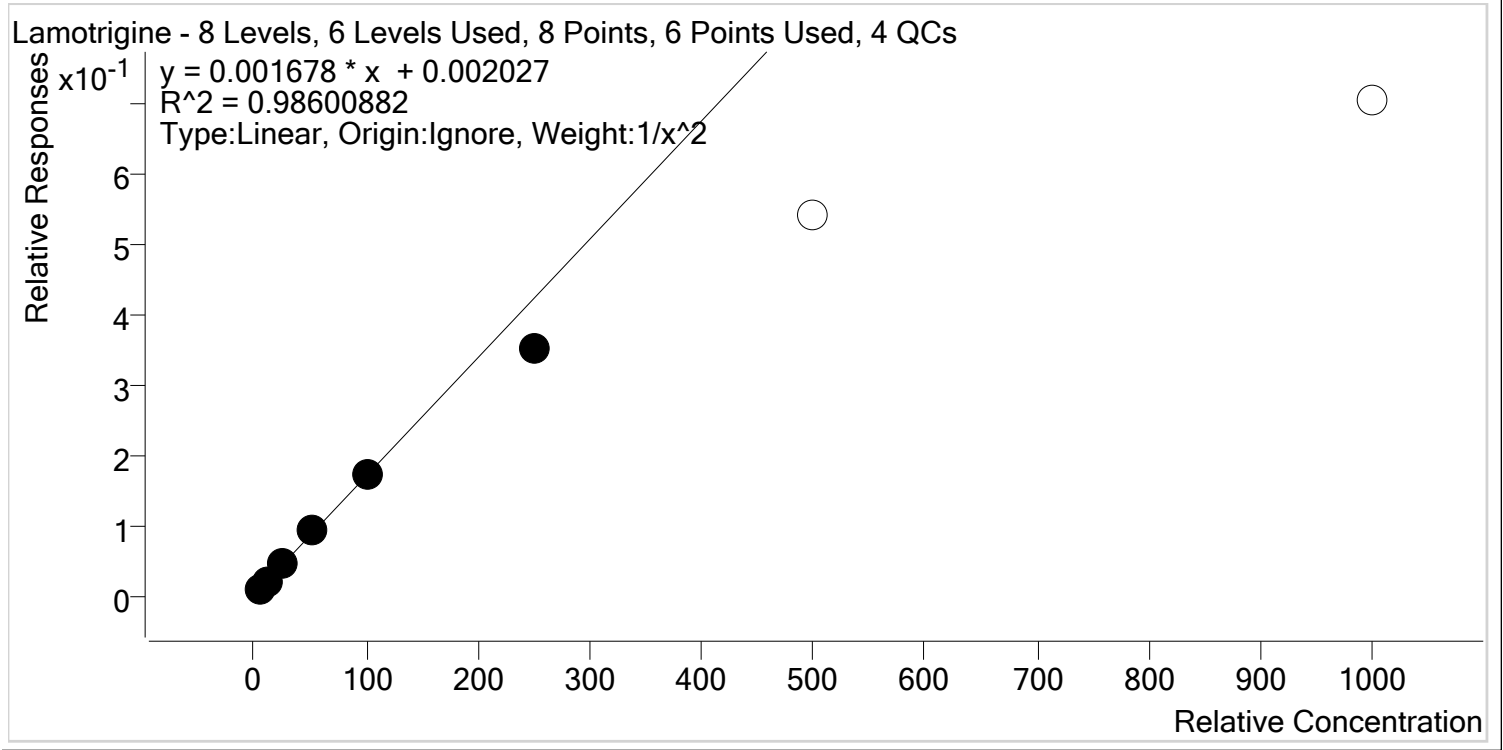


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.6
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.8
p1 Cal 3 -25ng	3	✓	25.0	25.2	101.0
p1 Cal 4-50ng	4	✓	50.0	51.4	102.9
p1 Cal 5-100ng	5	✓	100.0	100.8	100.8
p1 Cal 6-250ng	6	✓	250.0	252.0	100.8
p1 Cal 7-500ng	7	✓	500.0	496.4	99.3
p1 Cal 8-1000ng	8	✓	1000.0	958.1	95.8



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte Lamotrigine **Internal Standard** Ketamine-D4

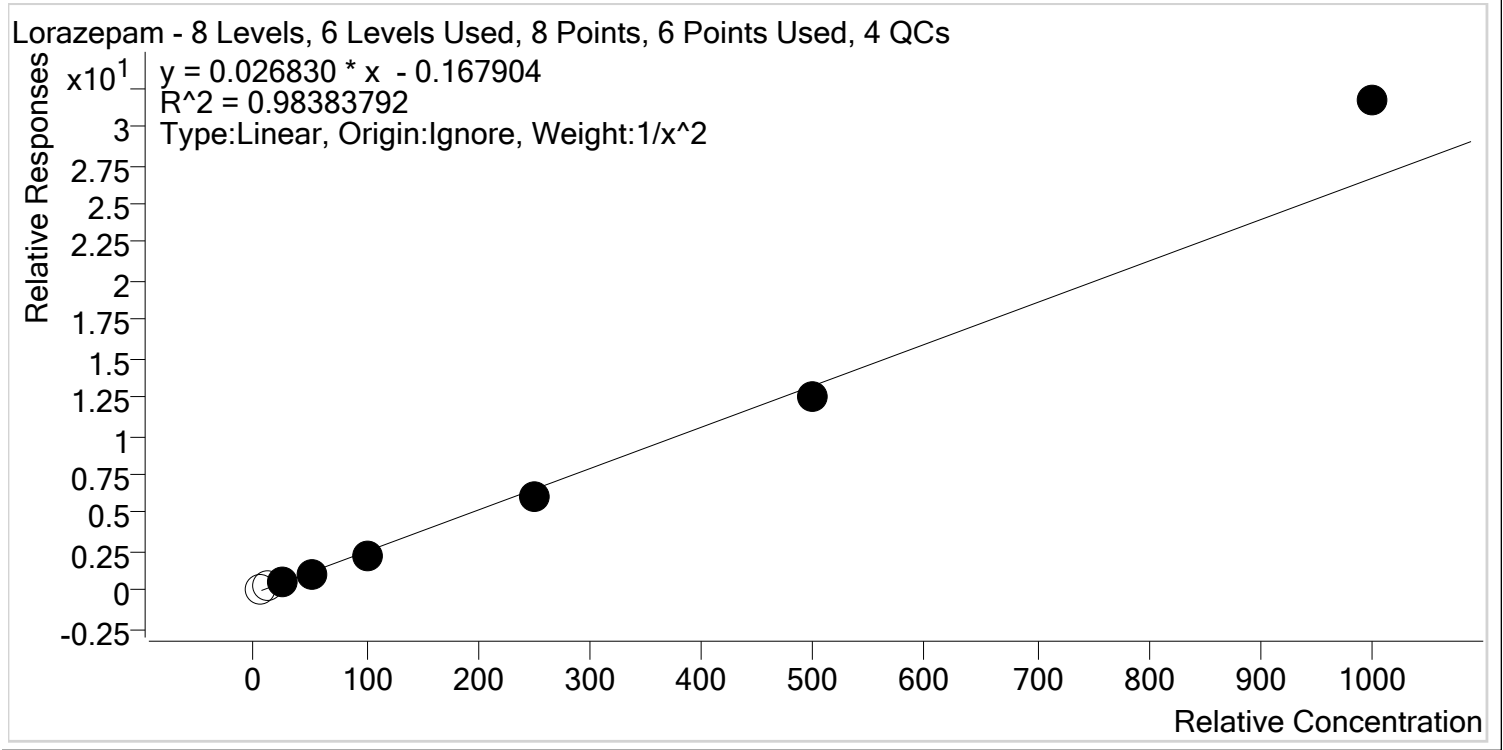


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.2
p1 Cal 2- 10ng	2	✓	10.0	10.3	103.3
p1 Cal 3 -25ng	3	✓	25.0	26.9	107.6
p1 Cal 4-50ng	4	✓	50.0	54.7	109.4
p1 Cal 5-100ng	5	✓	100.0	100.8	100.8
p1 Cal 6-250ng	6	✓	250.0	206.8	82.7
p1 Cal 7-500ng	7	x	500.0	319.2	63.8
p1 Cal 8-1000ng	8	x	1000.0	417.1	41.7



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte Lorazepam **Internal Standard** Clonazepam-D4

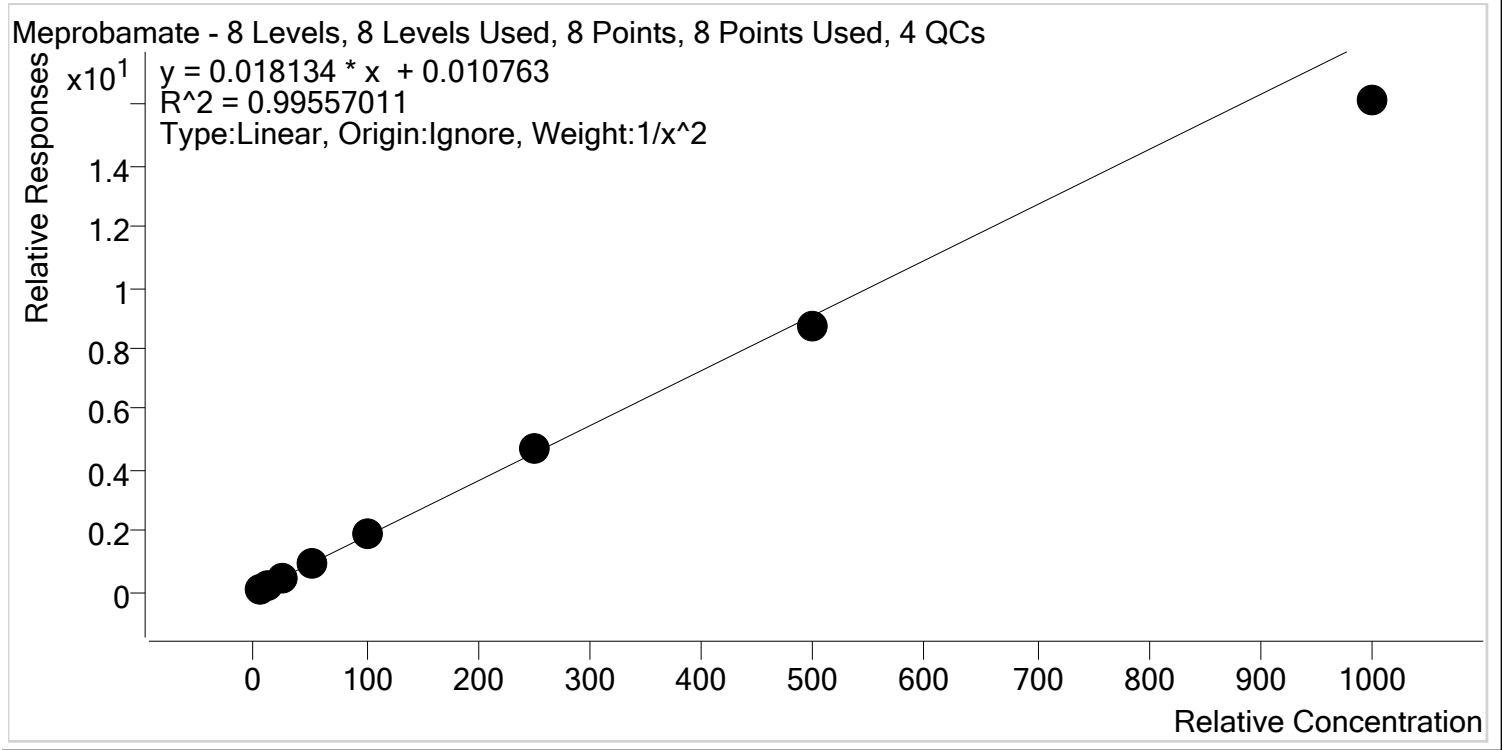


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	x	5.0	10.6	211.9
p1 Cal 2- 10ng	2	x	10.0	15.0	149.8
p1 Cal 3 -25ng	3	✓	25.0	26.0	103.9
p1 Cal 4-50ng	4	✓	50.0	48.9	97.9
p1 Cal 5-100ng	5	✓	100.0	89.9	89.9
p1 Cal 6-250ng	6	✓	250.0	235.9	94.4
p1 Cal 7-500ng	7	✓	500.0	476.0	95.2
p1 Cal 8-1000ng	8	✓	1000.0	1187.2	118.7



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte Meprobamate **Internal Standard** Meprobamate-D7

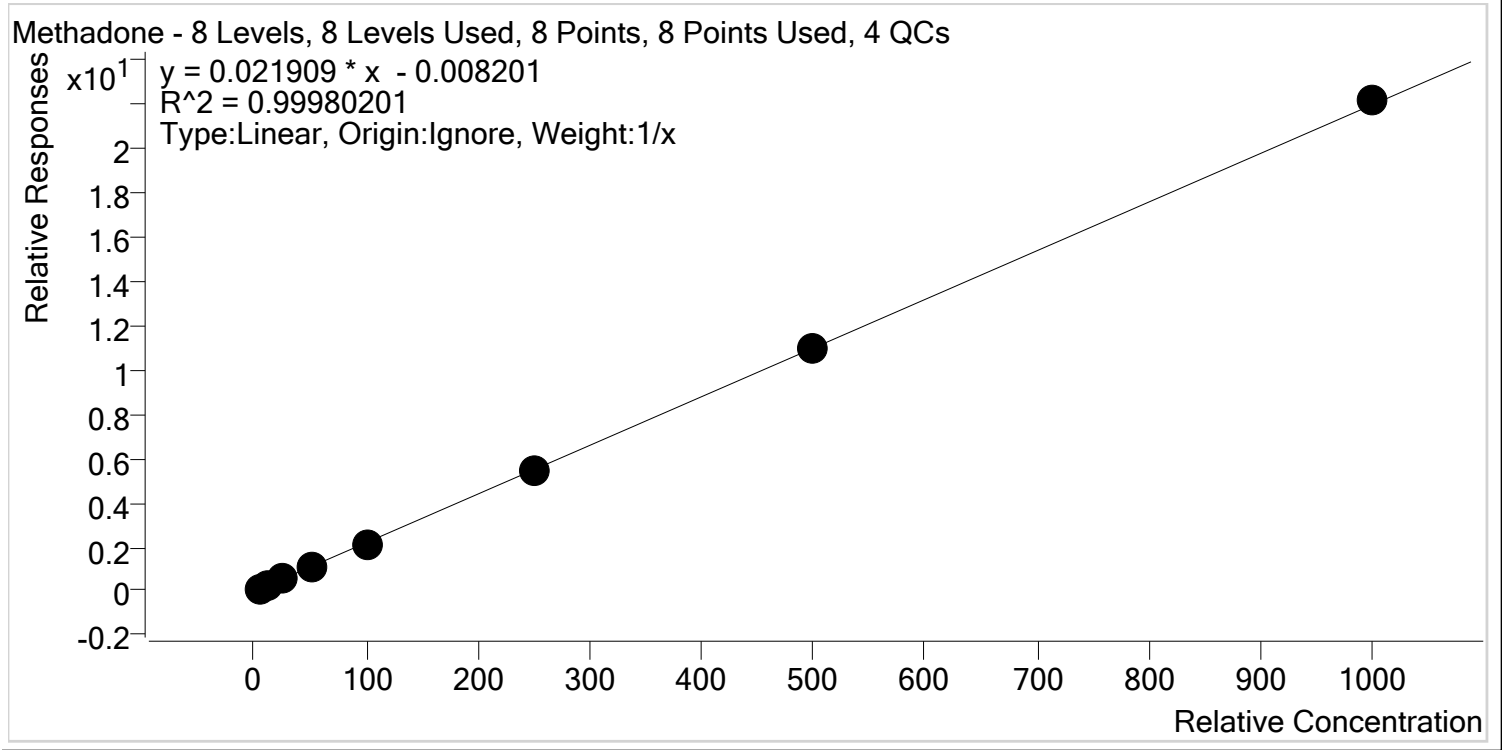


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.3
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.1
p1 Cal 3 -25ng	3	✓	25.0	26.1	104.2
p1 Cal 4-50ng	4	✓	50.0	53.7	107.4
p1 Cal 5-100ng	5	✓	100.0	101.7	101.7
p1 Cal 6-250ng	6	✓	250.0	256.4	102.6
p1 Cal 7-500ng	7	✓	500.0	478.8	95.8
p1 Cal 8-1000ng	8	✓	1000.0	889.0	88.9



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte Methadone **Internal Standard** Methadone-D9

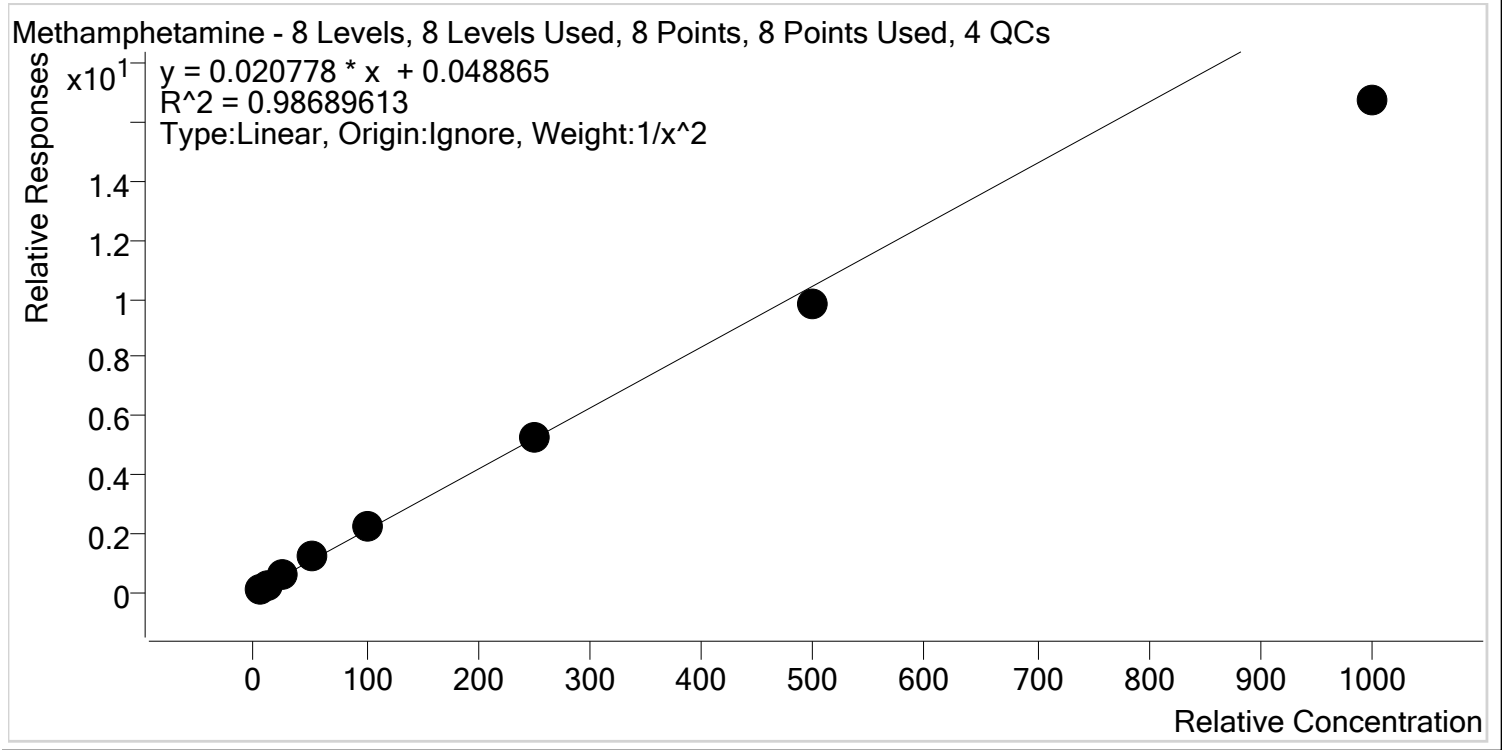


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.4	107.1
p1 Cal 2- 10ng	2	✓	10.0	10.3	102.7
p1 Cal 3 -25ng	3	✓	25.0	24.3	97.1
p1 Cal 4-50ng	4	✓	50.0	48.6	97.1
p1 Cal 5-100ng	5	✓	100.0	95.9	95.9
p1 Cal 6-250ng	6	✓	250.0	248.9	99.5
p1 Cal 7-500ng	7	✓	500.0	498.0	99.6
p1 Cal 8-1000ng	8	✓	1000.0	1008.8	100.9



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte Methamphetamine **Internal Standard** Methamphetamine-D11

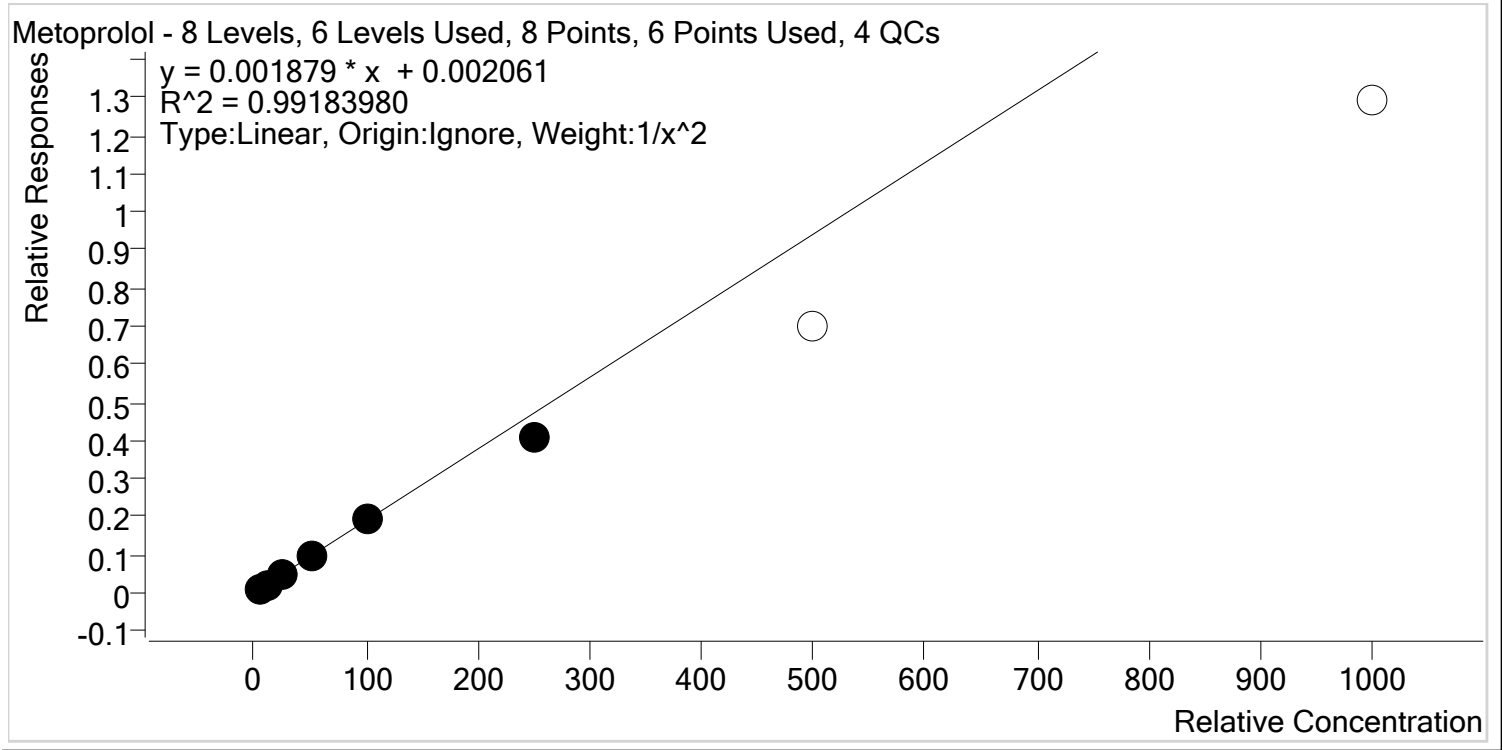


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.6
p1 Cal 2- 10ng	2	✓	10.0	10.3	102.9
p1 Cal 3 -25ng	3	✓	25.0	27.1	108.3
p1 Cal 4-50ng	4	✓	50.0	55.8	111.6
p1 Cal 5-100ng	5	✓	100.0	106.0	106.0
p1 Cal 6-250ng	6	✓	250.0	254.2	101.7
p1 Cal 7-500ng	7	✓	500.0	468.2	93.6
p1 Cal 8-1000ng	8	✓	1000.0	802.8	80.3



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte Metoprolol **Internal Standard** Tramadol-13C-D3

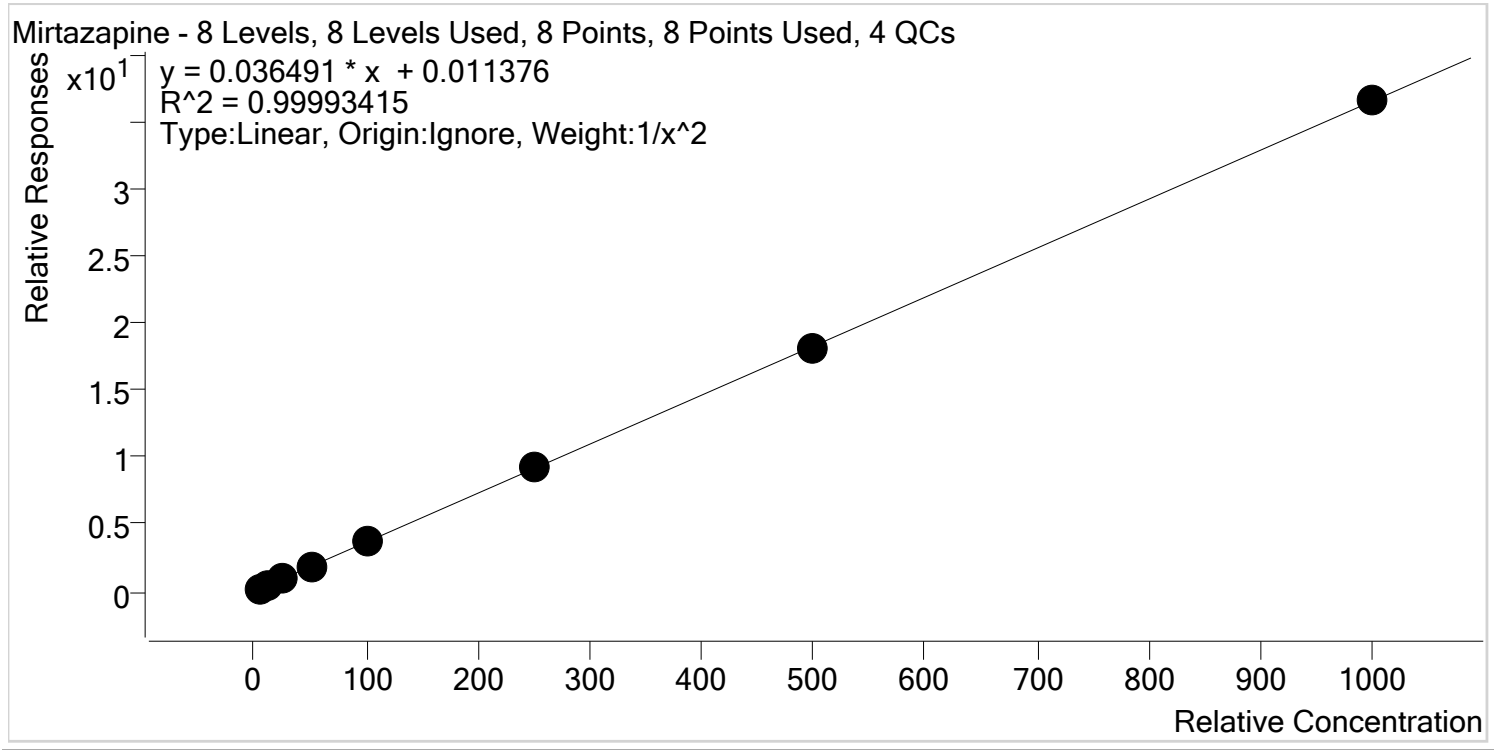


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.6
p1 Cal 2- 10ng	2	✓	10.0	10.6	105.9
p1 Cal 3 -25ng	3	✓	25.0	26.5	105.8
p1 Cal 4-50ng	4	✓	50.0	52.6	105.1
p1 Cal 5-100ng	5	✓	100.0	100.0	100.0
p1 Cal 6-250ng	6	✓	250.0	218.6	87.4
p1 Cal 7-500ng	7	✗	500.0	373.3	74.7
p1 Cal 8-1000ng	8	✗	1000.0	686.5	68.6



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte Mirtazapine **Internal Standard** alpha-PVP-d8

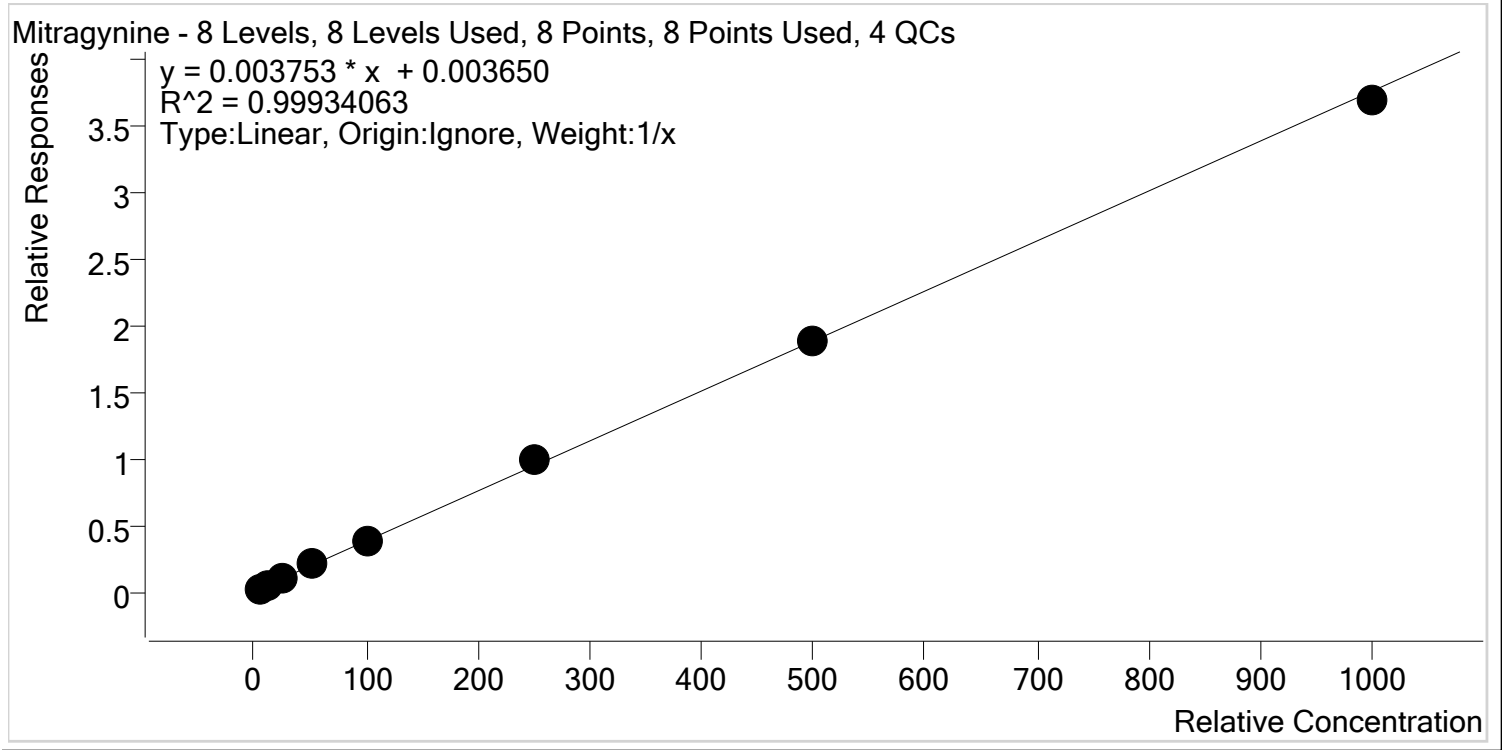


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.8
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.6
p1 Cal 3 -25ng	3	✓	25.0	25.0	100.0
p1 Cal 4-50ng	4	✓	50.0	49.3	98.6
p1 Cal 5-100ng	5	✓	100.0	100.1	100.1
p1 Cal 6-250ng	6	✓	250.0	252.5	101.0
p1 Cal 7-500ng	7	✓	500.0	498.7	99.7
p1 Cal 8-1000ng	8	✓	1000.0	1001.3	100.1



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte Mitragynine **Internal Standard** Methadone-D9

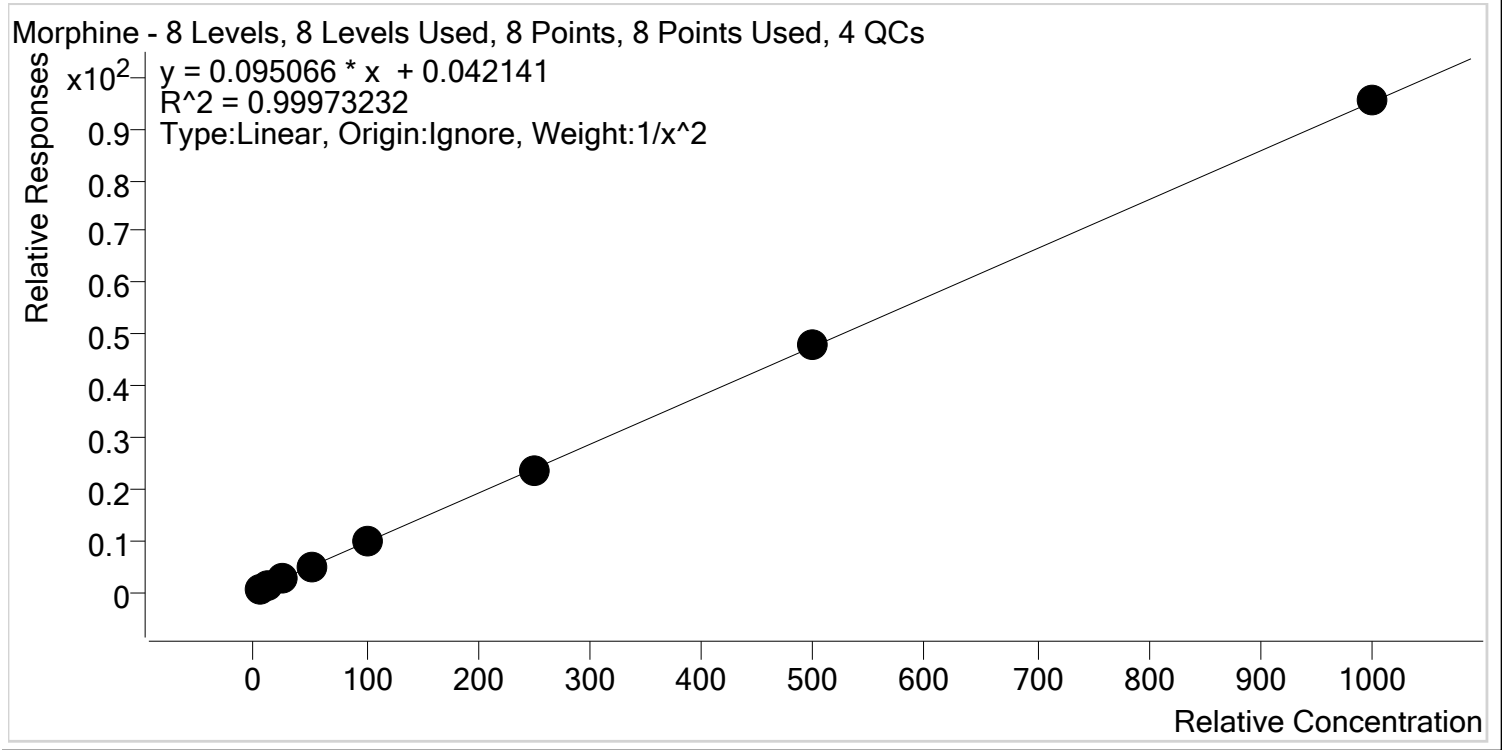


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.4	88.3
p1 Cal 2- 10ng	2	✓	10.0	9.7	97.4
p1 Cal 3 -25ng	3	✓	25.0	25.8	103.1
p1 Cal 4-50ng	4	✓	50.0	52.6	105.2
p1 Cal 5-100ng	5	✓	100.0	103.0	103.0
p1 Cal 6-250ng	6	✓	250.0	260.8	104.3
p1 Cal 7-500ng	7	✓	500.0	502.7	100.5
p1 Cal 8-1000ng	8	✓	1000.0	981.0	98.1



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte Morphine **Internal Standard** Morphine-D6

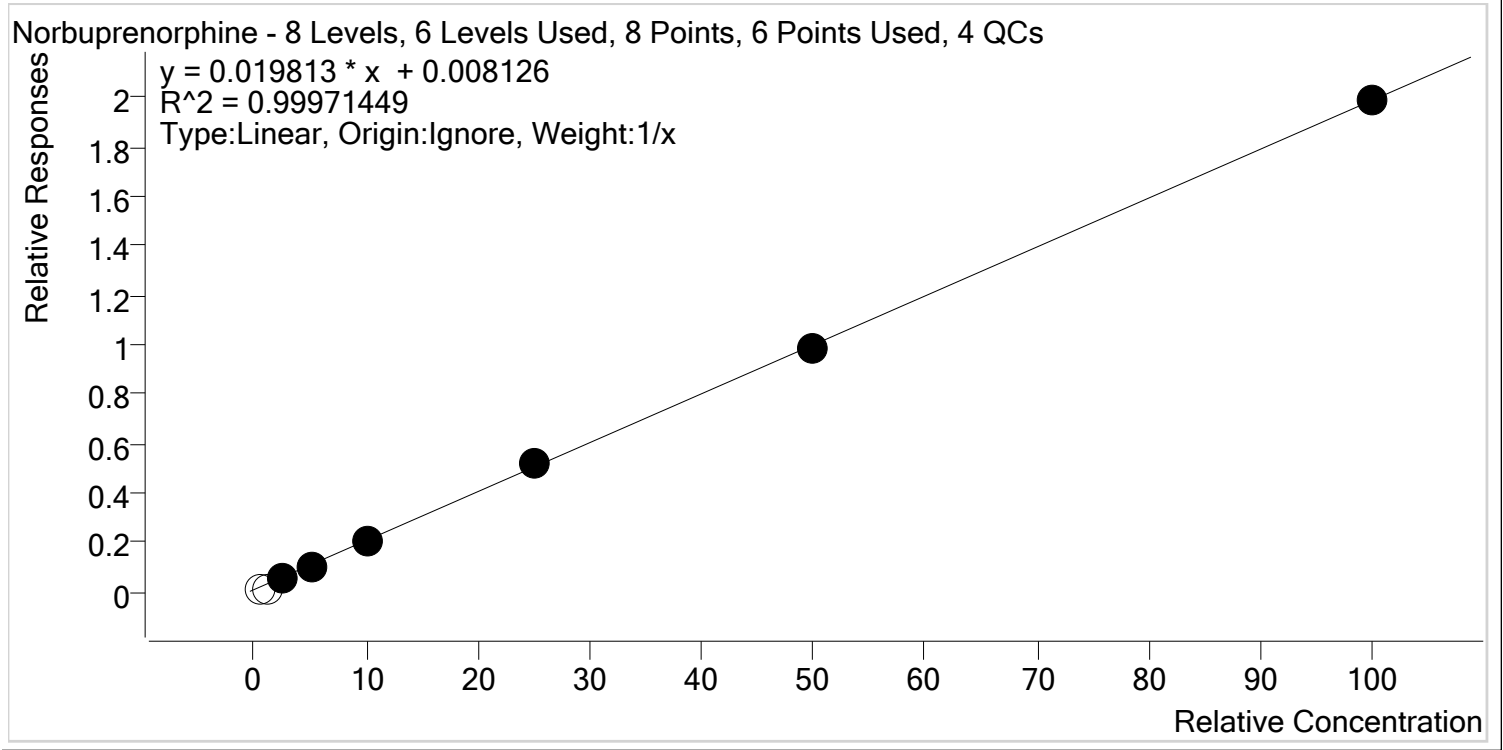


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.4
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.0
p1 Cal 3 -25ng	3	✓	25.0	24.9	99.6
p1 Cal 4-50ng	4	✓	50.0	51.2	102.3
p1 Cal 5-100ng	5	✓	100.0	99.2	99.2
p1 Cal 6-250ng	6	✓	250.0	243.8	97.5
p1 Cal 7-500ng	7	✓	500.0	502.9	100.6
p1 Cal 8-1000ng	8	✓	1000.0	1002.9	100.3



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte Norbuprenorphine **Internal Standard** Norbuprenorphine-D3

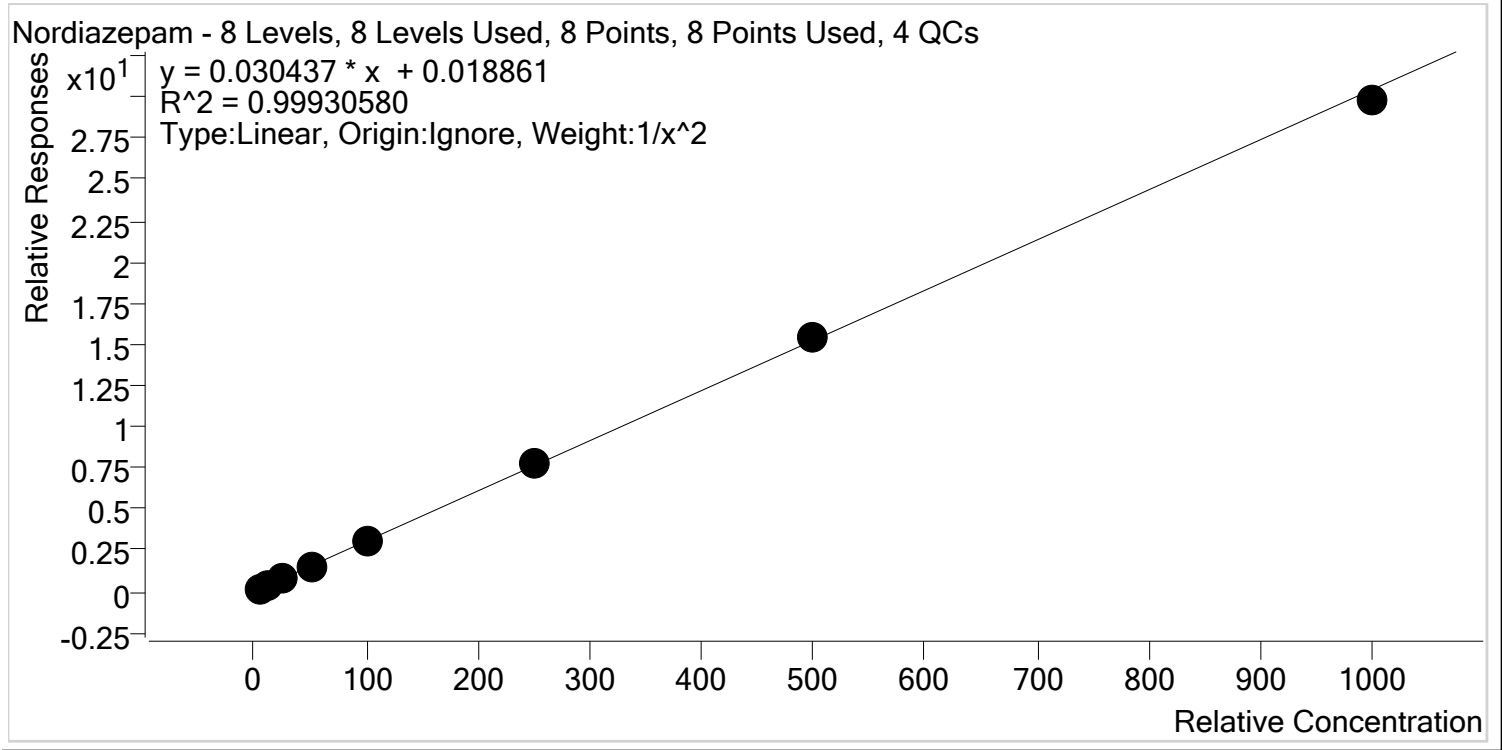


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	x	0.5	0.2	46.5
p1 Cal 2- 10ng	2	x	1.0	0.1	14.3
p1 Cal 3 -25ng	3	✓	2.5	2.5	100.9
p1 Cal 4-50ng	4	✓	5.0	4.8	96.9
p1 Cal 5-100ng	5	✓	10.0	10.0	100.4
p1 Cal 6-250ng	6	✓	25.0	25.8	103.3
p1 Cal 7-500ng	7	✓	50.0	49.3	98.7
p1 Cal 8-1000ng	8	✓	100.0	99.9	99.9



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte Nordiazepam **Internal Standard** Nordiazepam-D5

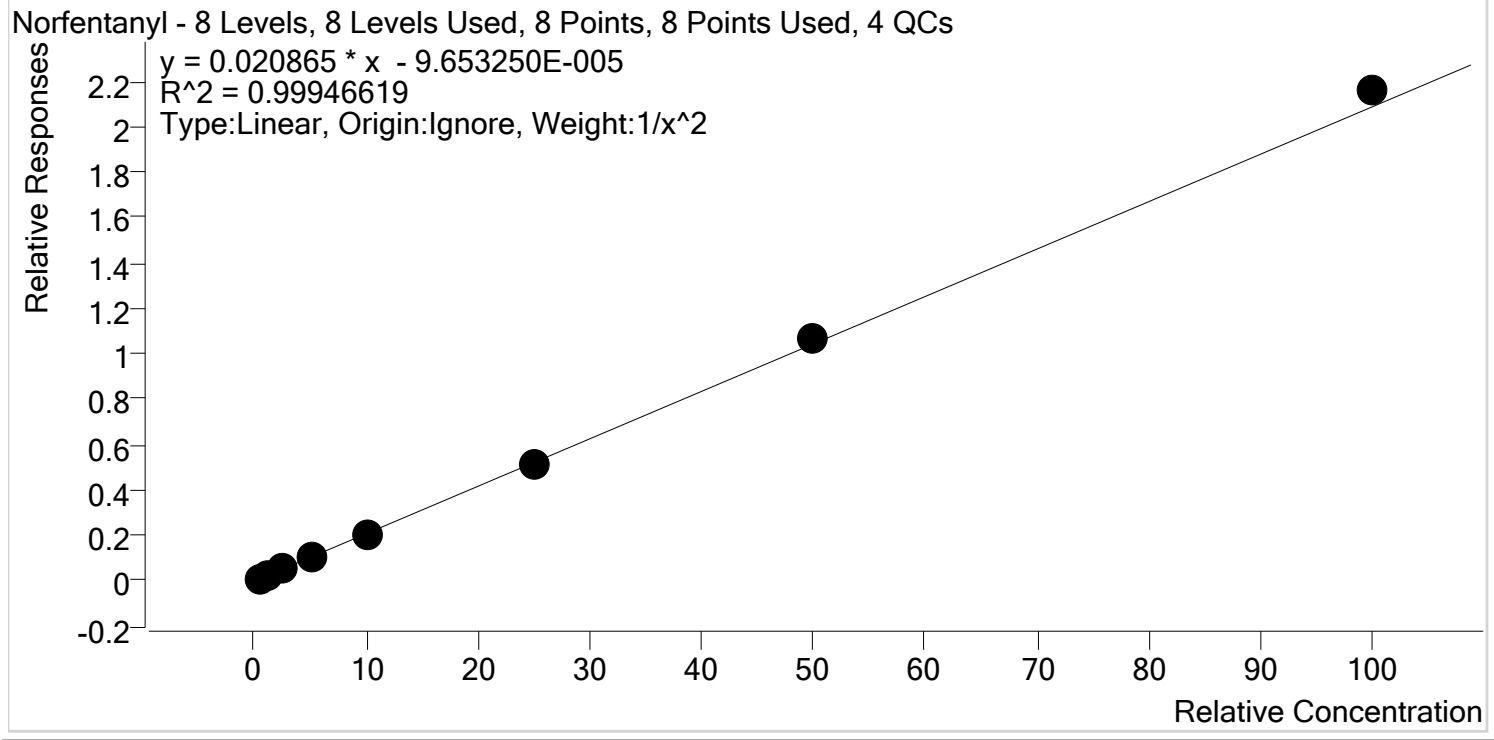


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.8
p1 Cal 2- 10ng	2	✓	10.0	9.8	98.1
p1 Cal 3 -25ng	3	✓	25.0	25.1	100.4
p1 Cal 4-50ng	4	✓	50.0	51.2	102.4
p1 Cal 5-100ng	5	✓	100.0	96.5	96.5
p1 Cal 6-250ng	6	✓	250.0	256.5	102.6
p1 Cal 7-500ng	7	✓	500.0	507.3	101.5
p1 Cal 8-1000ng	8	✓	1000.0	978.0	97.8



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte Norfentanyl **Internal Standard** Norfentanyl-D5

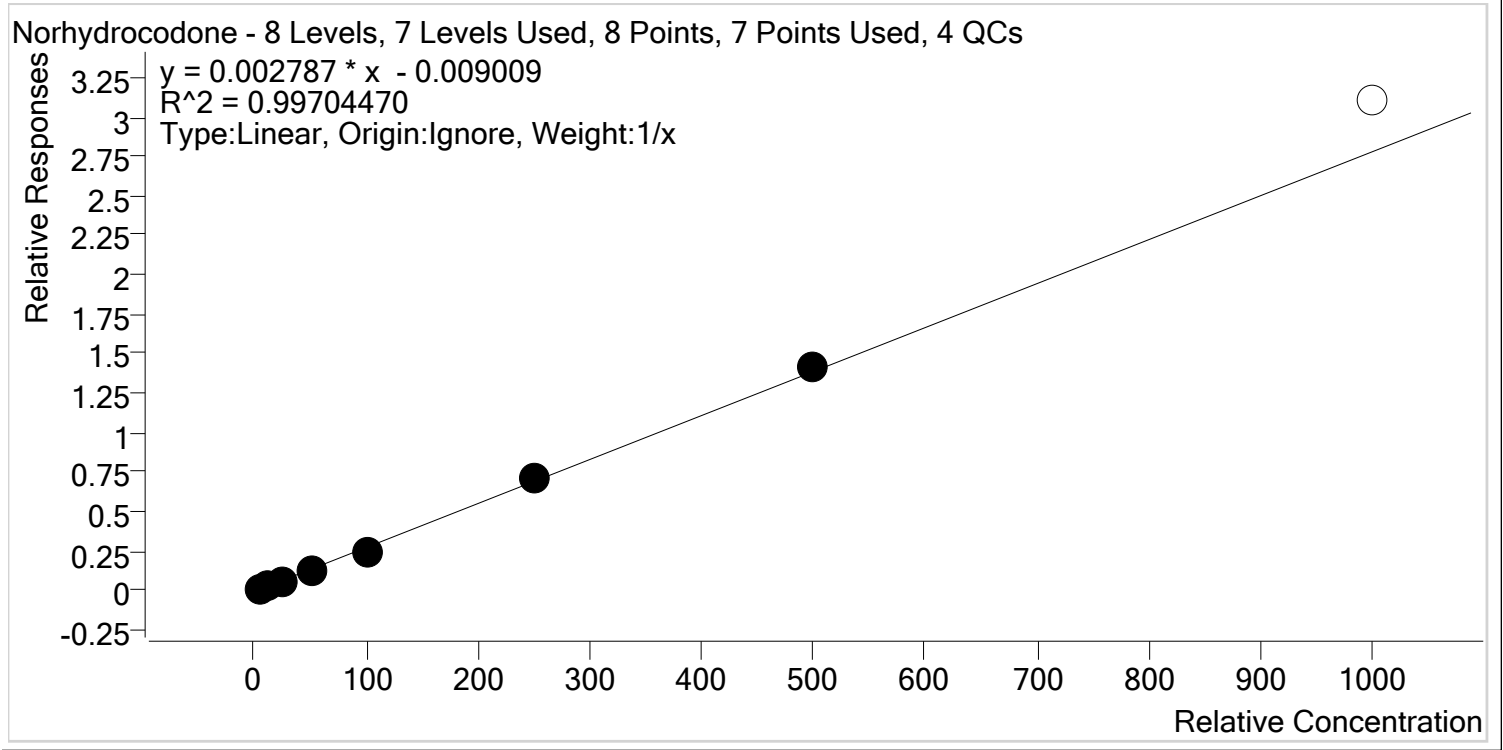


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	101.2
p1 Cal 2- 10ng	2	✓	1.0	1.0	99.0
p1 Cal 3 -25ng	3	✓	2.5	2.4	97.3
p1 Cal 4-50ng	4	✓	5.0	4.9	98.7
p1 Cal 5-100ng	5	✓	10.0	9.9	98.6
p1 Cal 6-250ng	6	✓	25.0	25.0	100.0
p1 Cal 7-500ng	7	✓	50.0	50.9	101.8
p1 Cal 8-1000ng	8	✓	100.0	103.4	103.4



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte Norhydrocodone **Internal Standard** Norhydrocodone-D3

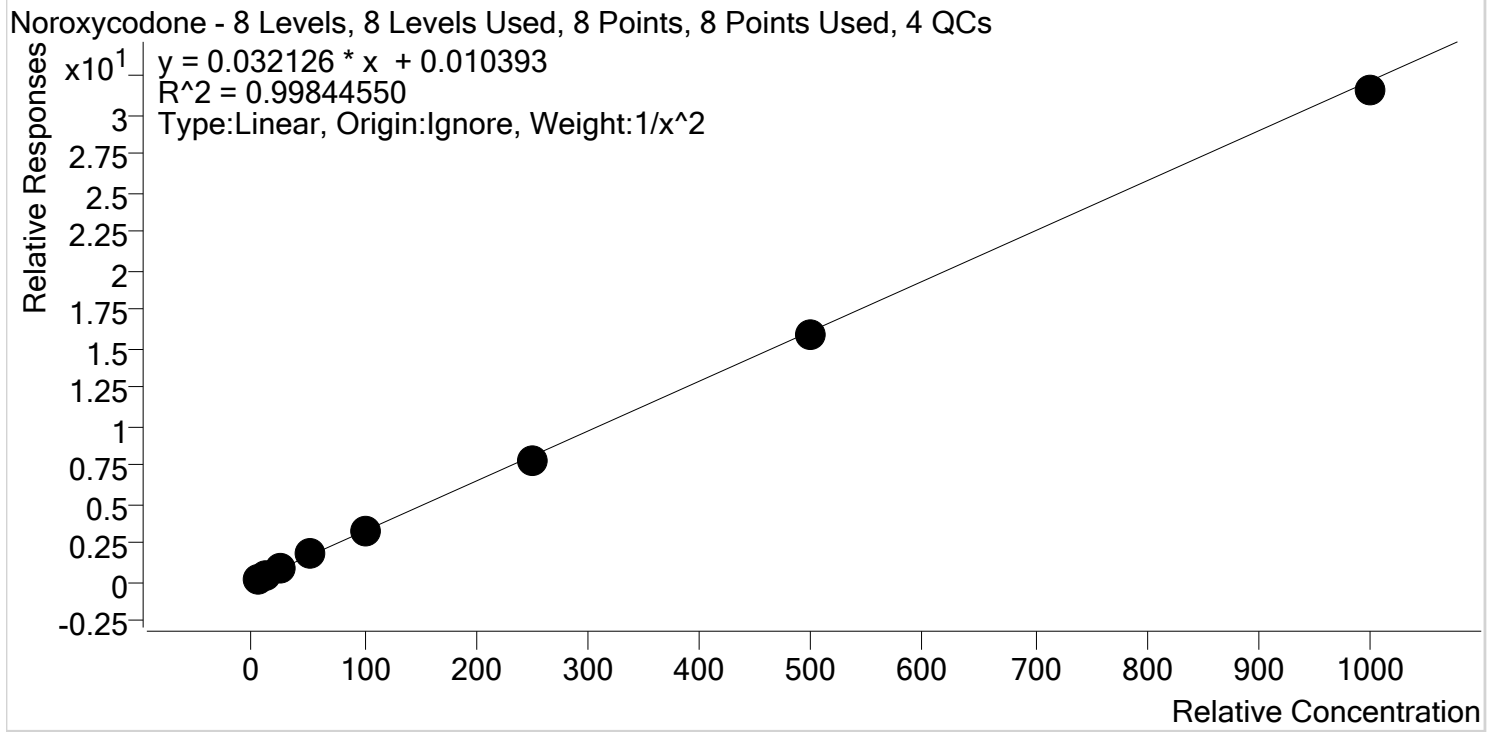


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	6.2	124.4
p1 Cal 2- 10ng	2	✓	10.0	10.4	103.7
p1 Cal 3 -25ng	3	✓	25.0	21.9	87.7
p1 Cal 4-50ng	4	✓	50.0	44.1	88.2
p1 Cal 5-100ng	5	✓	100.0	91.7	91.7
p1 Cal 6-250ng	6	✓	250.0	256.1	102.4
p1 Cal 7-500ng	7	✓	500.0	509.5	101.9
p1 Cal 8-1000ng	8	x	1000.0	1116.4	111.6



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte Noroxycodone **Internal Standard** Noroxycodone-D3

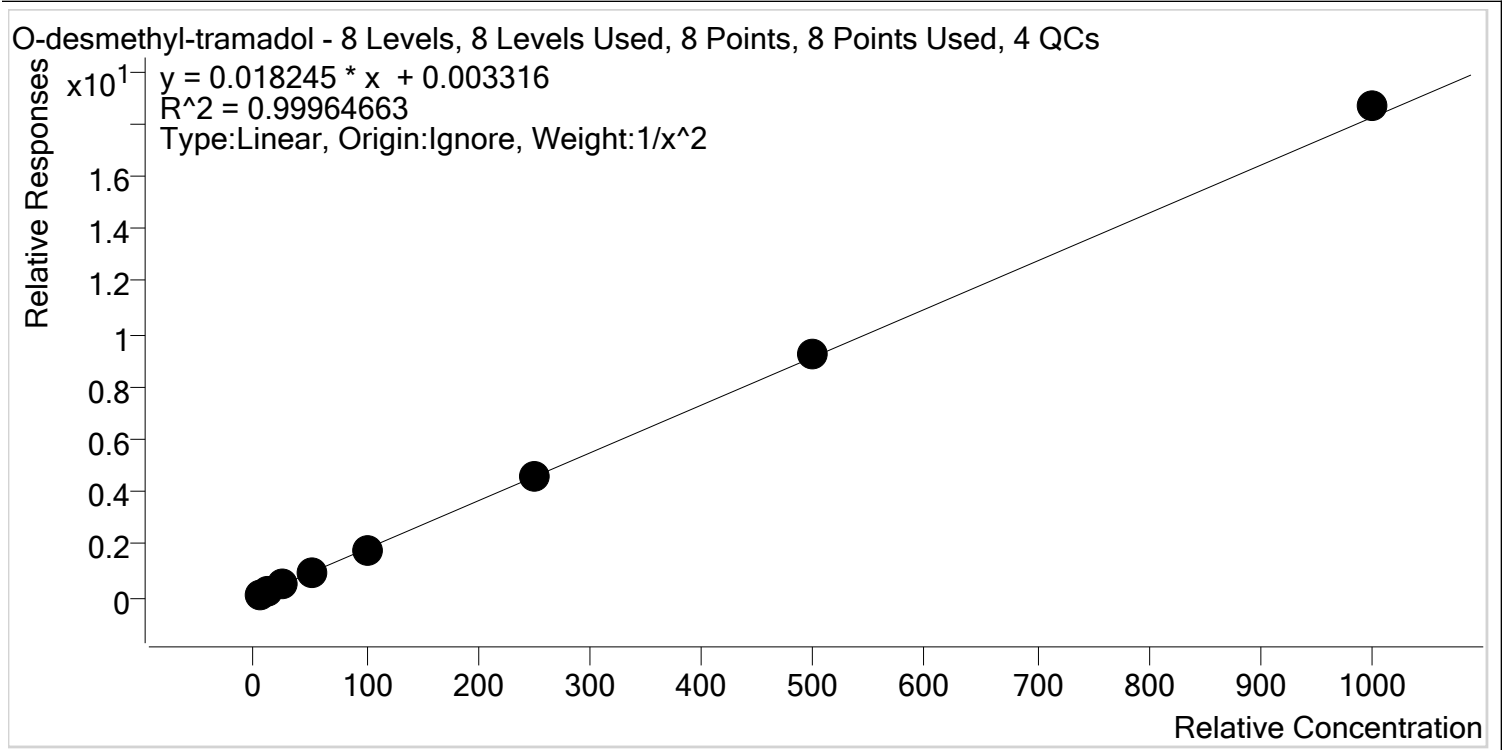


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.2
p1 Cal 2- 10ng	2	✓	10.0	9.7	97.1
p1 Cal 3 -25ng	3	✓	25.0	25.8	103.0
p1 Cal 4-50ng	4	✓	50.0	53.1	106.3
p1 Cal 5-100ng	5	✓	100.0	101.4	101.4
p1 Cal 6-250ng	6	✓	250.0	240.2	96.1
p1 Cal 7-500ng	7	✓	500.0	489.2	97.8
p1 Cal 8-1000ng	8	✓	1000.0	980.6	98.1



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte O-desmethyl-tramadol **Internal Standard** O-desmethyl-tramadol-D6

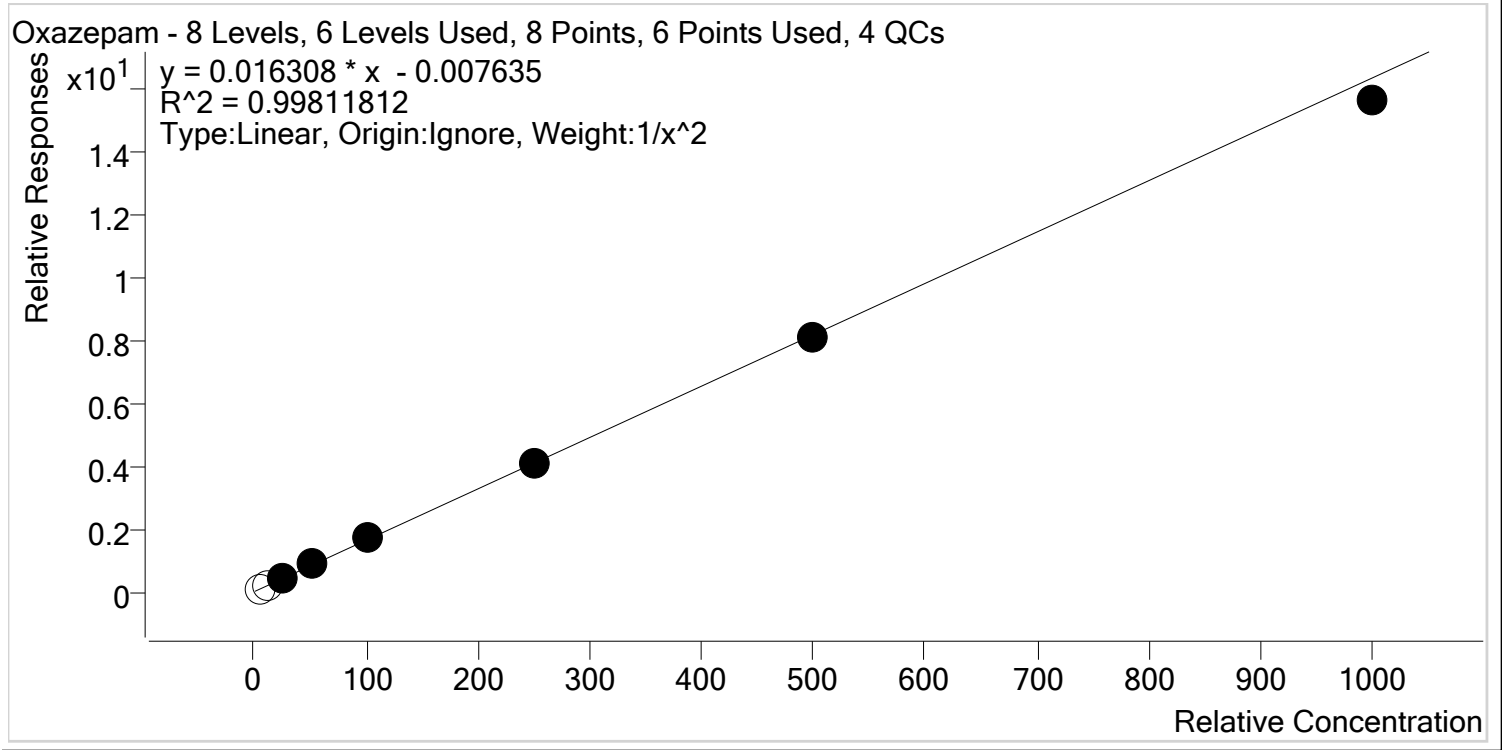


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.4
p1 Cal 2- 10ng	2	✓	10.0	9.8	98.1
p1 Cal 3 -25ng	3	✓	25.0	24.6	98.2
p1 Cal 4-50ng	4	✓	50.0	49.9	99.8
p1 Cal 5-100ng	5	✓	100.0	98.5	98.5
p1 Cal 6-250ng	6	✓	250.0	250.5	100.2
p1 Cal 7-500ng	7	✓	500.0	507.5	101.5
p1 Cal 8-1000ng	8	✓	1000.0	1023.2	102.3



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte Oxazepam **Internal Standard** Oxazepam-D5

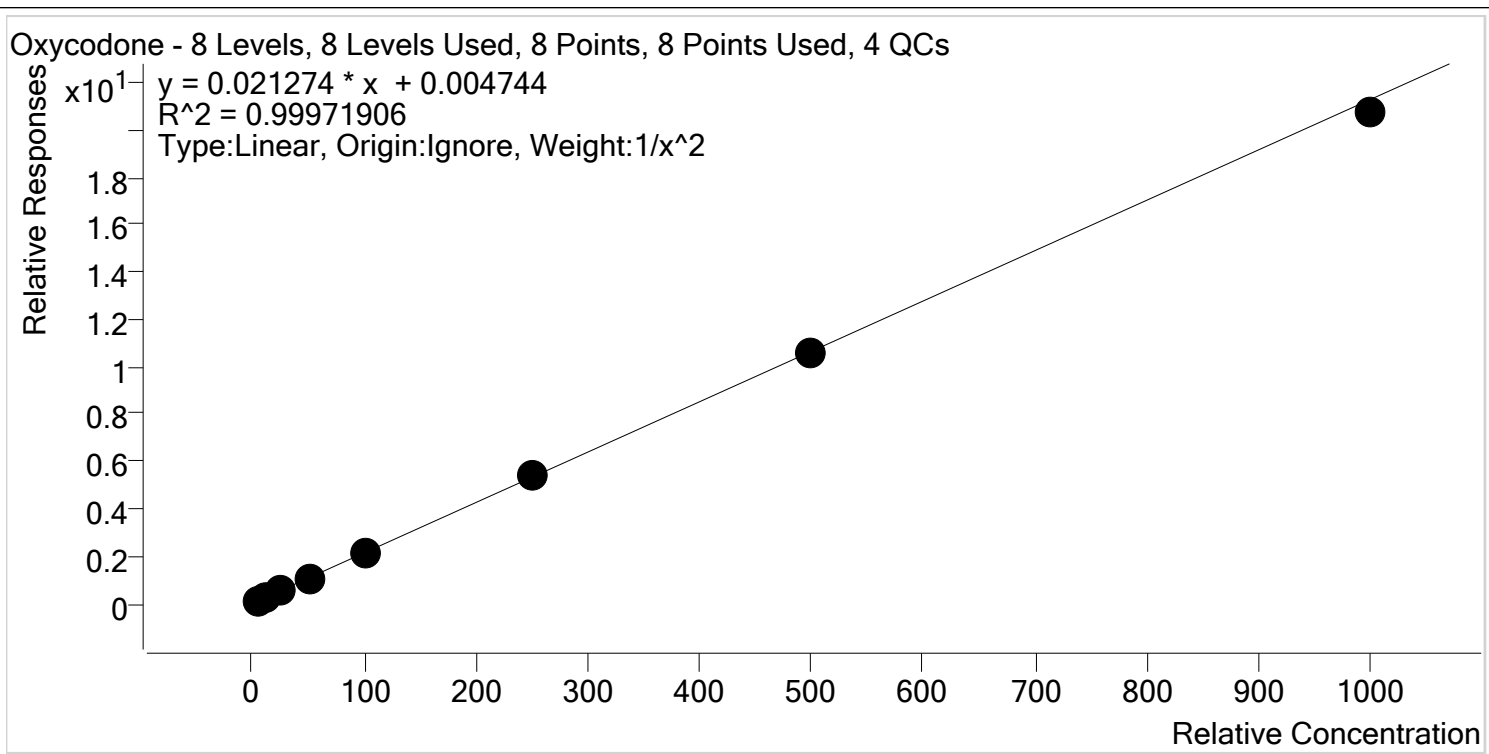


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	x	5.0	5.6	111.7
p1 Cal 2- 10ng	2	x	10.0	10.9	108.7
p1 Cal 3 -25ng	3	✓	25.0	24.3	97.1
p1 Cal 4-50ng	4	✓	50.0	52.0	104.0
p1 Cal 5-100ng	5	✓	100.0	103.8	103.8
p1 Cal 6-250ng	6	✓	250.0	251.6	100.6
p1 Cal 7-500ng	7	✓	500.0	493.8	98.8
p1 Cal 8-1000ng	8	✓	1000.0	956.0	95.6



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte Oxycodone **Internal Standard** Oxycodone-D6

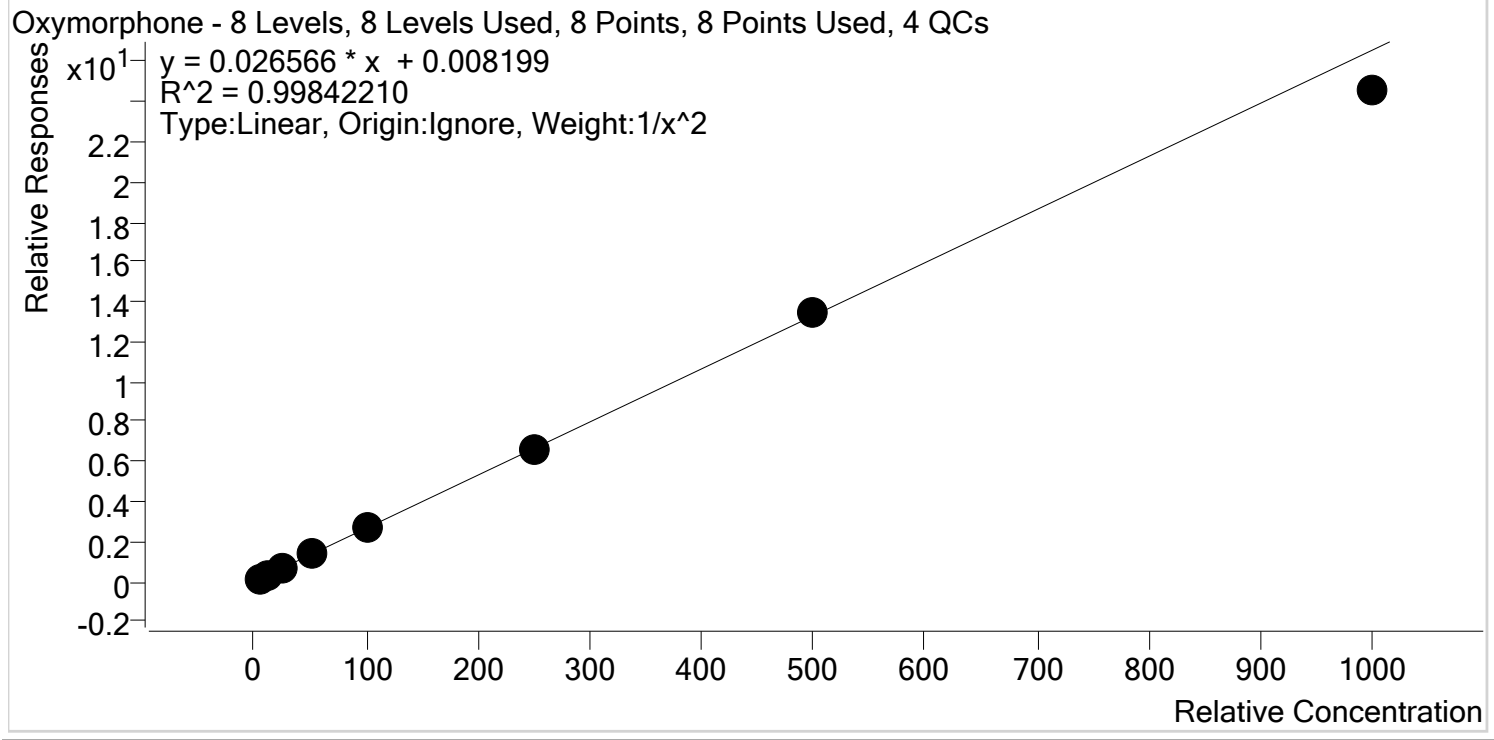


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.7
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.0
p1 Cal 3 -25ng	3	✓	25.0	25.0	100.2
p1 Cal 4-50ng	4	✓	50.0	51.3	102.6
p1 Cal 5-100ng	5	✓	100.0	99.9	99.9
p1 Cal 6-250ng	6	✓	250.0	252.2	100.9
p1 Cal 7-500ng	7	✓	500.0	496.8	99.4
p1 Cal 8-1000ng	8	✓	1000.0	974.1	97.4



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte Oxymorphone **Internal Standard** Oxymorphone-D3

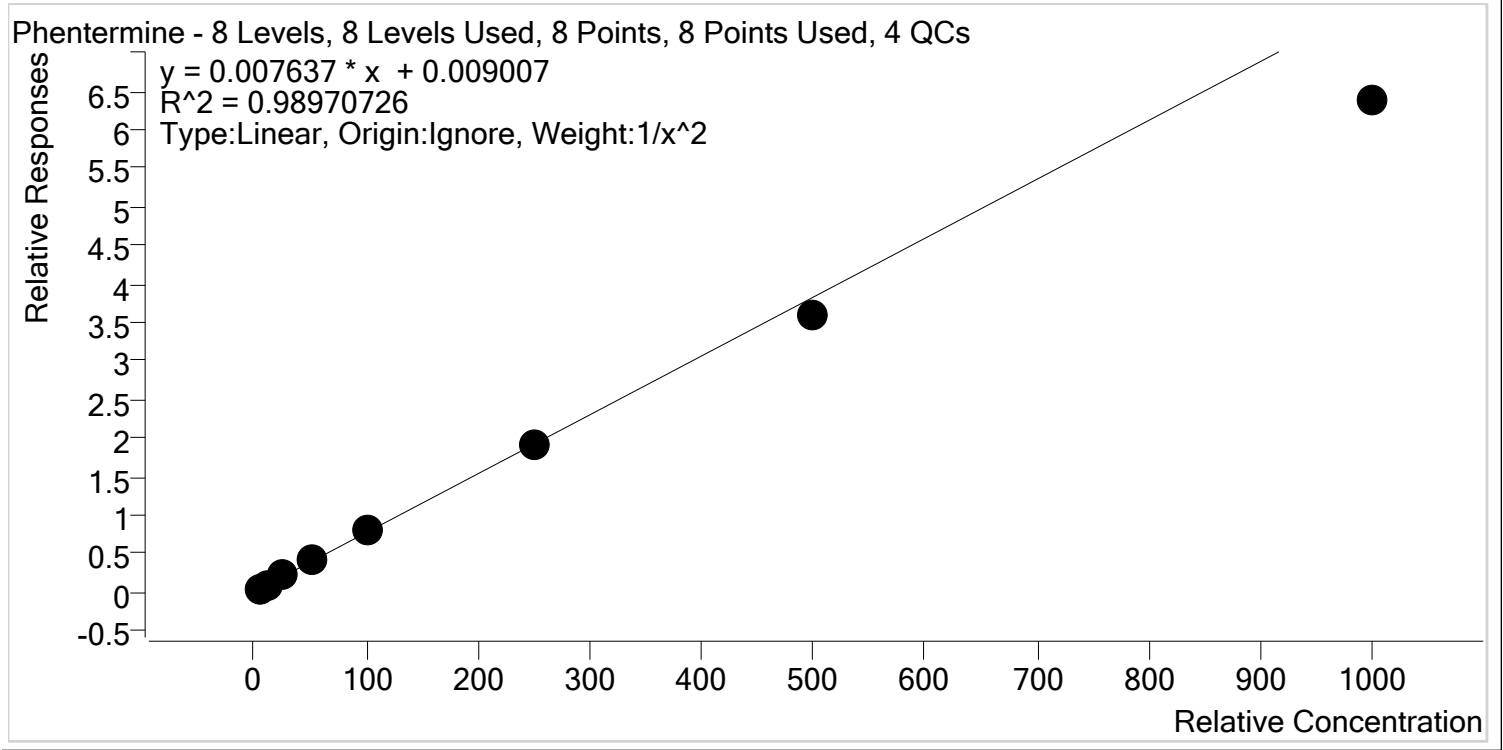


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.7
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.2
p1 Cal 3 -25ng	3	✓	25.0	25.3	101.0
p1 Cal 4-50ng	4	✓	50.0	52.1	104.3
p1 Cal 5-100ng	5	✓	100.0	102.1	102.1
p1 Cal 6-250ng	6	✓	250.0	251.4	100.5
p1 Cal 7-500ng	7	✓	500.0	504.1	100.8
p1 Cal 8-1000ng	8	✓	1000.0	923.9	92.4



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte Phentermine **Internal Standard** Phentermine-D5

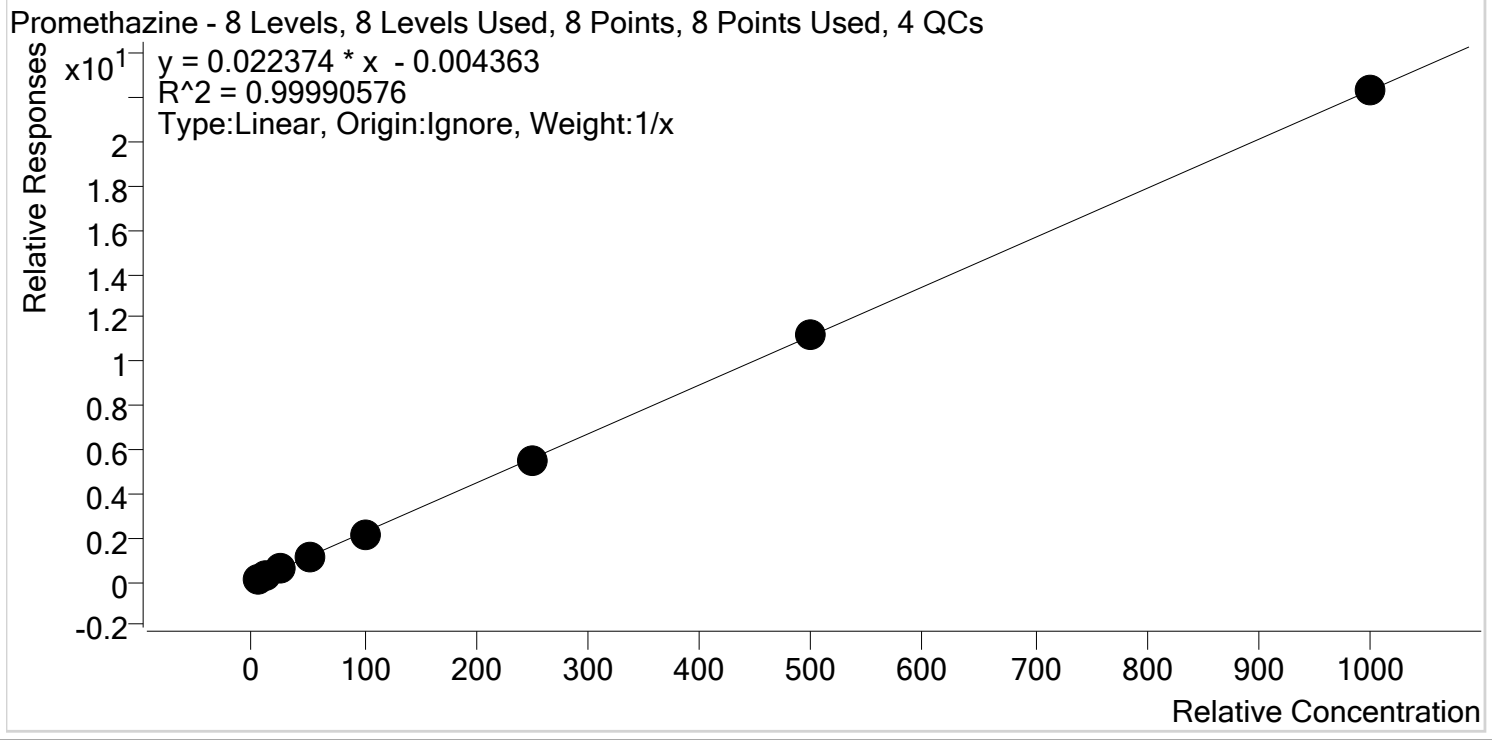


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.6
p1 Cal 2- 10ng	2	✓	10.0	10.4	103.5
p1 Cal 3 -25ng	3	✓	25.0	26.8	107.2
p1 Cal 4-50ng	4	✓	50.0	55.3	110.7
p1 Cal 5-100ng	5	✓	100.0	105.5	105.5
p1 Cal 6-250ng	6	✓	250.0	252.3	100.9
p1 Cal 7-500ng	7	✓	500.0	466.6	93.3
p1 Cal 8-1000ng	8	✓	1000.0	833.7	83.4



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte Promethazine **Internal Standard** Promethazine-D3

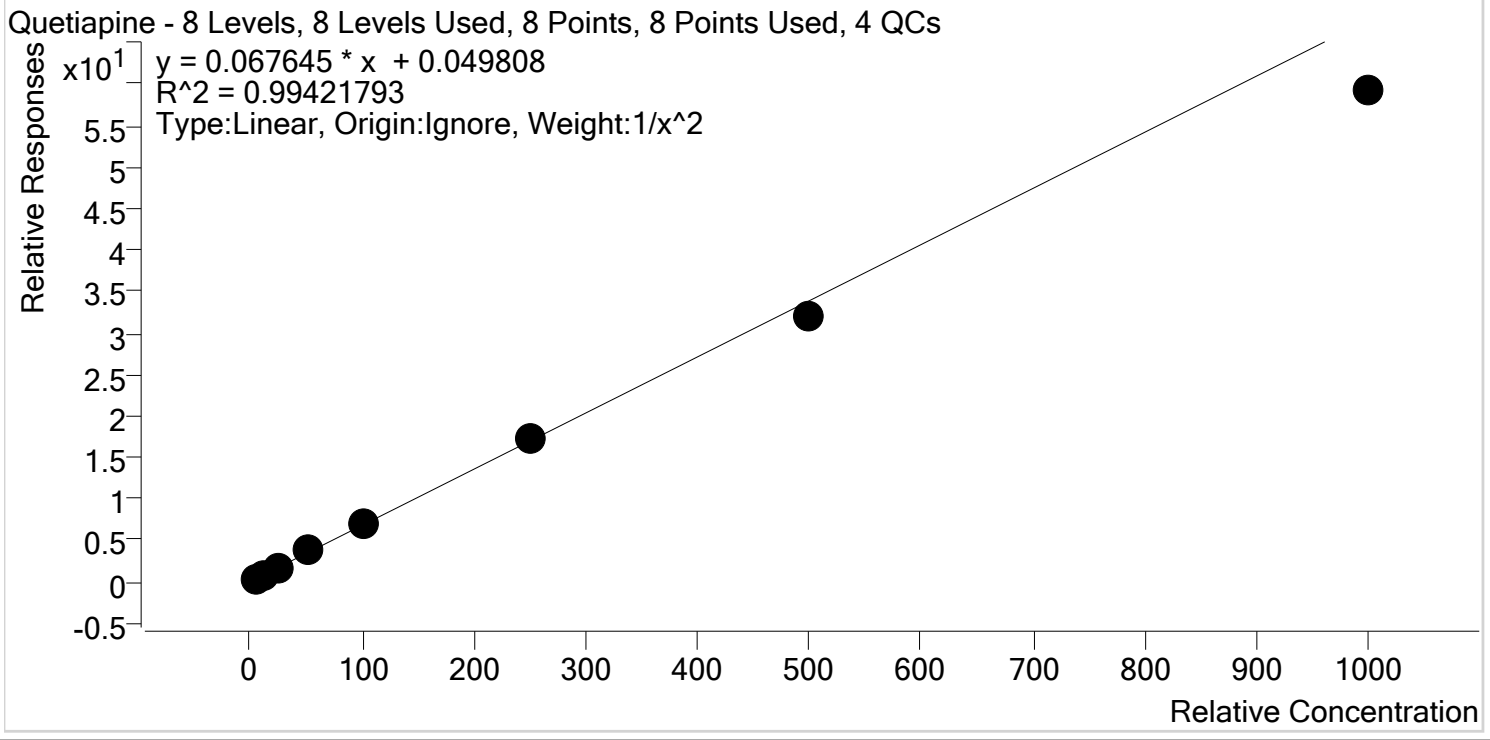


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.3	105.0
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.7
p1 Cal 3 -25ng	3	✓	25.0	24.5	98.0
p1 Cal 4-50ng	4	✓	50.0	49.8	99.6
p1 Cal 5-100ng	5	✓	100.0	97.3	97.3
p1 Cal 6-250ng	6	✓	250.0	248.3	99.3
p1 Cal 7-500ng	7	✓	500.0	505.4	101.1
p1 Cal 8-1000ng	8	✓	1000.0	999.5	100.0



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte Quetiapine **Internal Standard** Quetiapine-D8



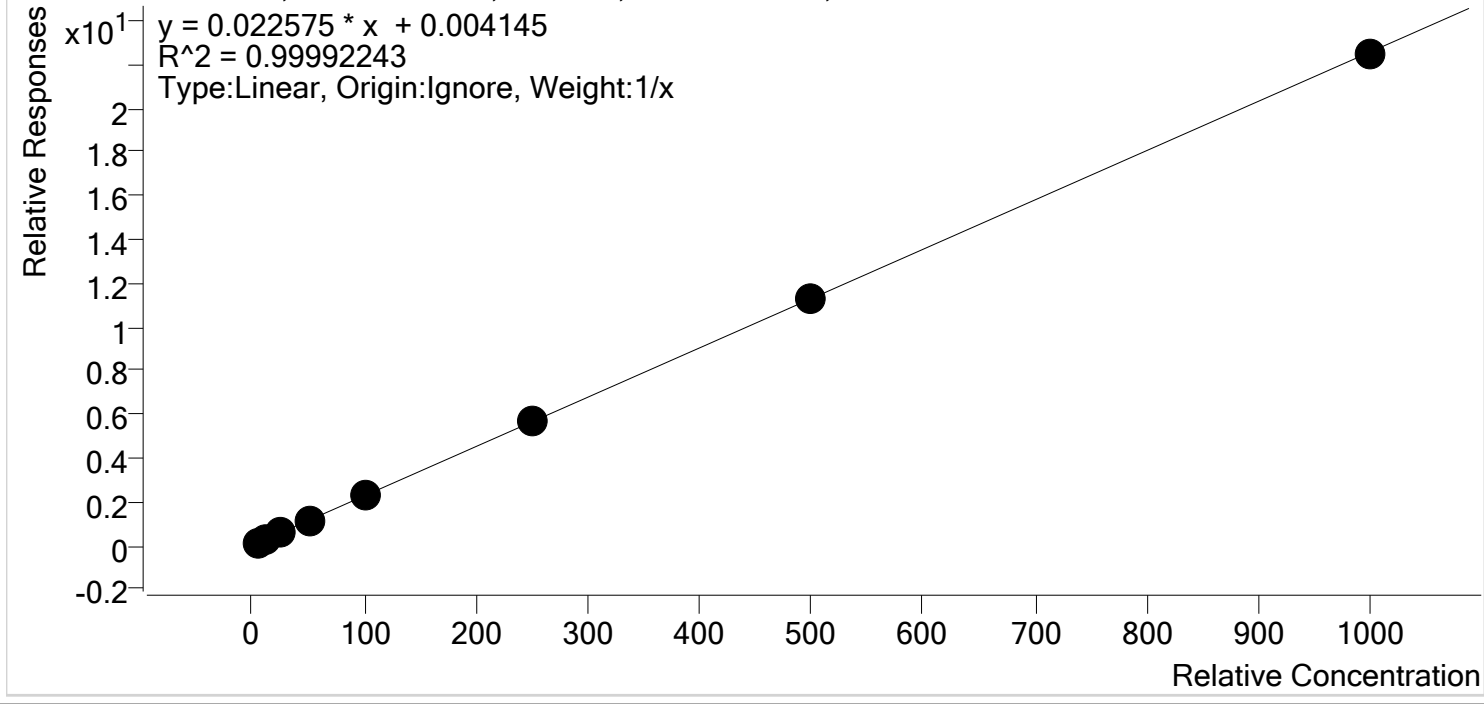
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.4
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.1
p1 Cal 3 -25ng	3	✓	25.0	26.4	105.5
p1 Cal 4-50ng	4	✓	50.0	54.1	108.3
p1 Cal 5-100ng	5	✓	100.0	104.0	104.0
p1 Cal 6-250ng	6	✓	250.0	252.7	101.1
p1 Cal 7-500ng	7	✓	500.0	475.6	95.1
p1 Cal 8-1000ng	8	✓	1000.0	874.3	87.4



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte Sertraline **Internal Standard** Sertraline-D3

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

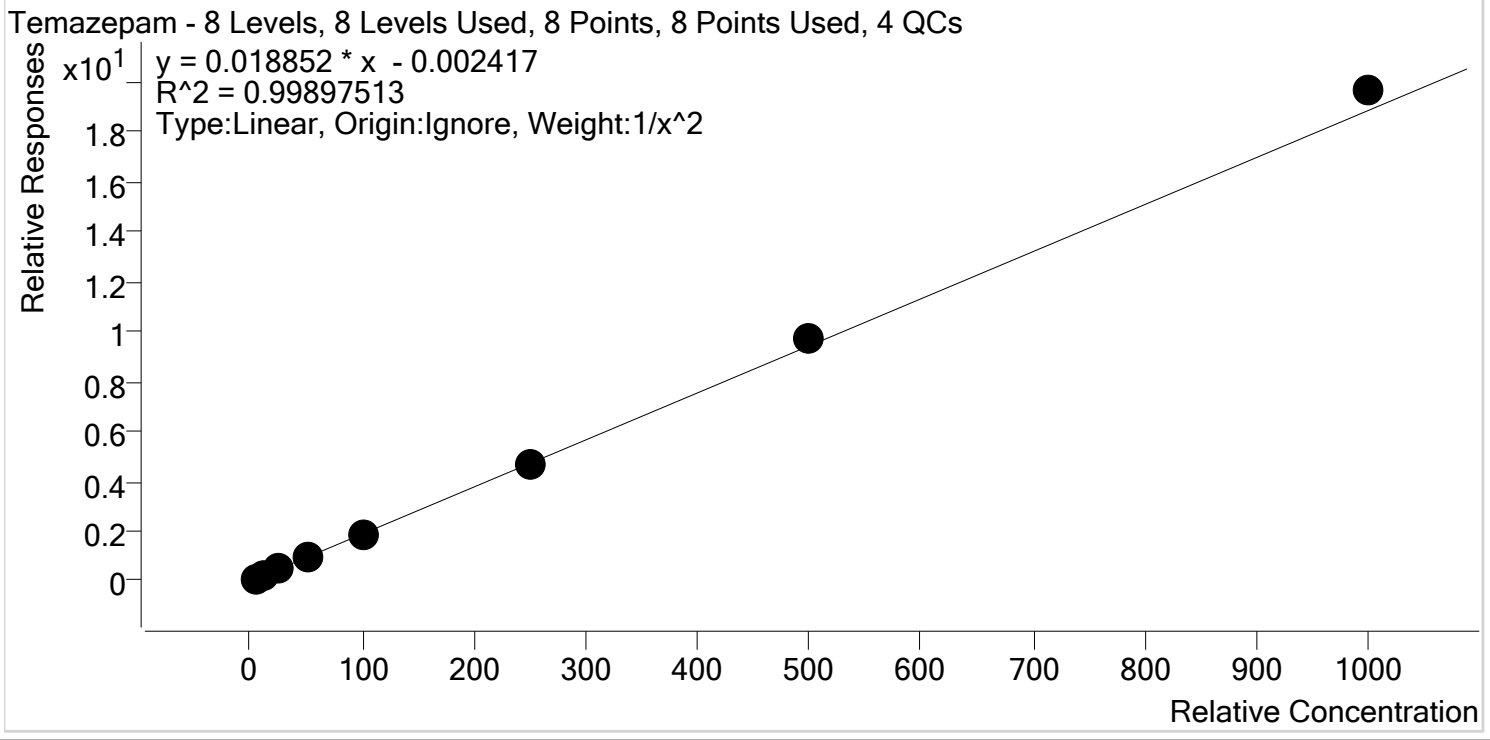


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.5
p1 Cal 2- 10ng	2	✓	10.0	9.8	97.7
p1 Cal 3 -25ng	3	✓	25.0	24.6	98.5
p1 Cal 4-50ng	4	✓	50.0	50.7	101.4
p1 Cal 5-100ng	5	✓	100.0	100.5	100.5
p1 Cal 6-250ng	6	✓	250.0	254.6	101.9
p1 Cal 7-500ng	7	✓	500.0	500.0	100.0
p1 Cal 8-1000ng	8	✓	1000.0	994.7	99.5



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte Temazepam **Internal Standard** Temazepam-D5

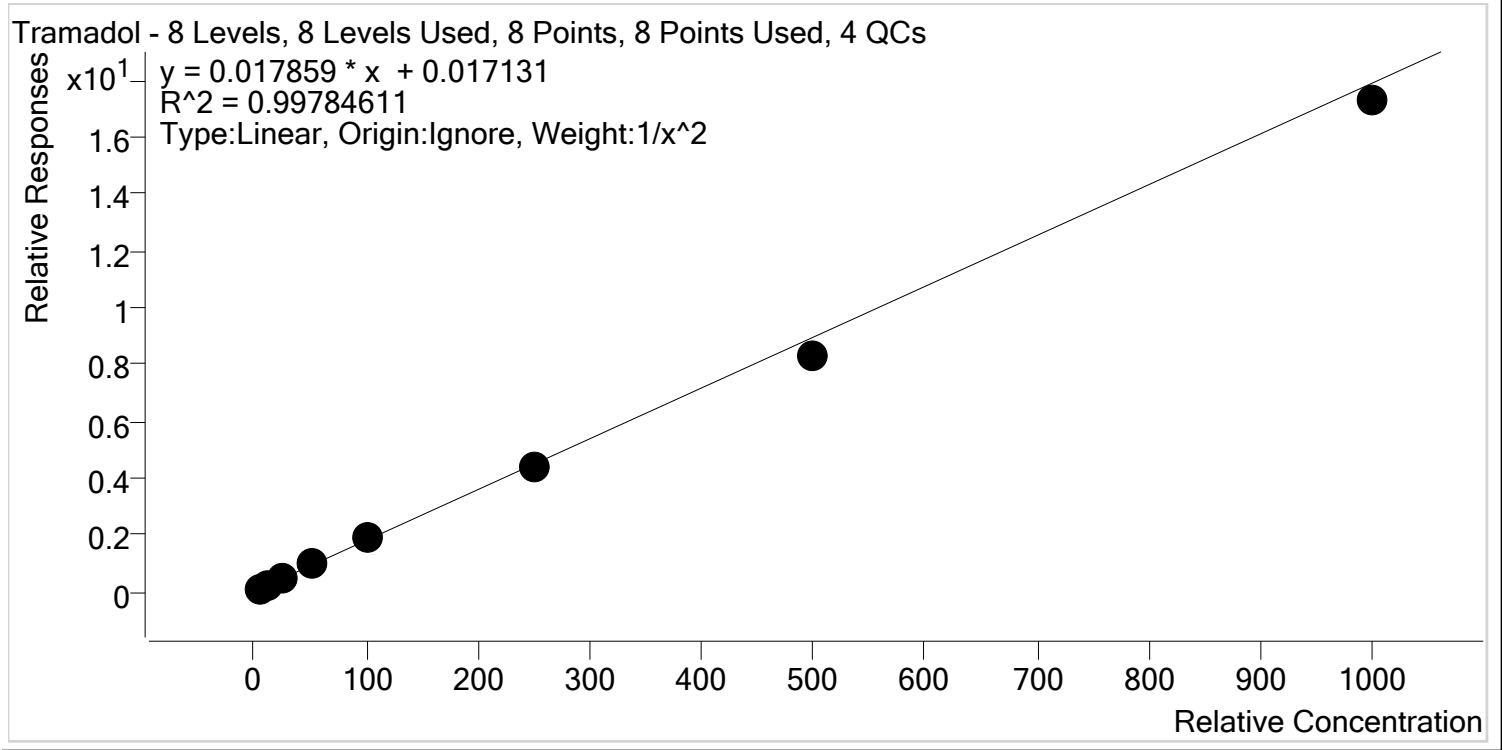


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	102.0
p1 Cal 2- 10ng	2	✓	10.0	9.8	97.6
p1 Cal 3 -25ng	3	✓	25.0	24.4	97.5
p1 Cal 4-50ng	4	✓	50.0	49.0	98.0
p1 Cal 5-100ng	5	✓	100.0	97.2	97.2
p1 Cal 6-250ng	6	✓	250.0	251.6	100.6
p1 Cal 7-500ng	7	✓	500.0	514.1	102.8
p1 Cal 8-1000ng	8	✓	1000.0	1042.4	104.2



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte Tramadol **Internal Standard** Tramadol-13C-D3

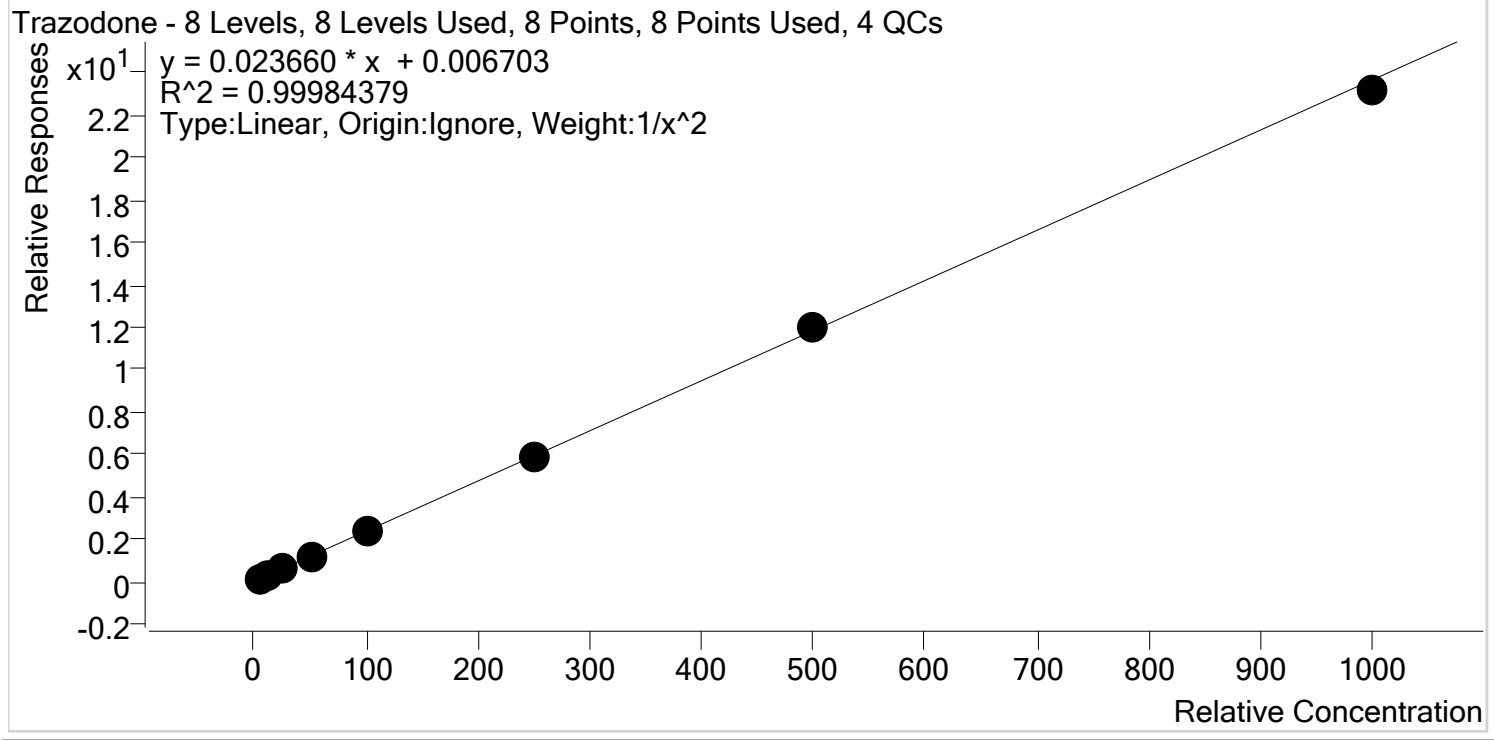


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.8
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.2
p1 Cal 3 -25ng	3	✓	25.0	25.6	102.6
p1 Cal 4-50ng	4	✓	50.0	52.7	105.3
p1 Cal 5-100ng	5	✓	100.0	103.3	103.3
p1 Cal 6-250ng	6	✓	250.0	247.6	99.0
p1 Cal 7-500ng	7	✓	500.0	466.2	93.2
p1 Cal 8-1000ng	8	✓	1000.0	965.6	96.6



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte Trazodone **Internal Standard** Trazodone-D6

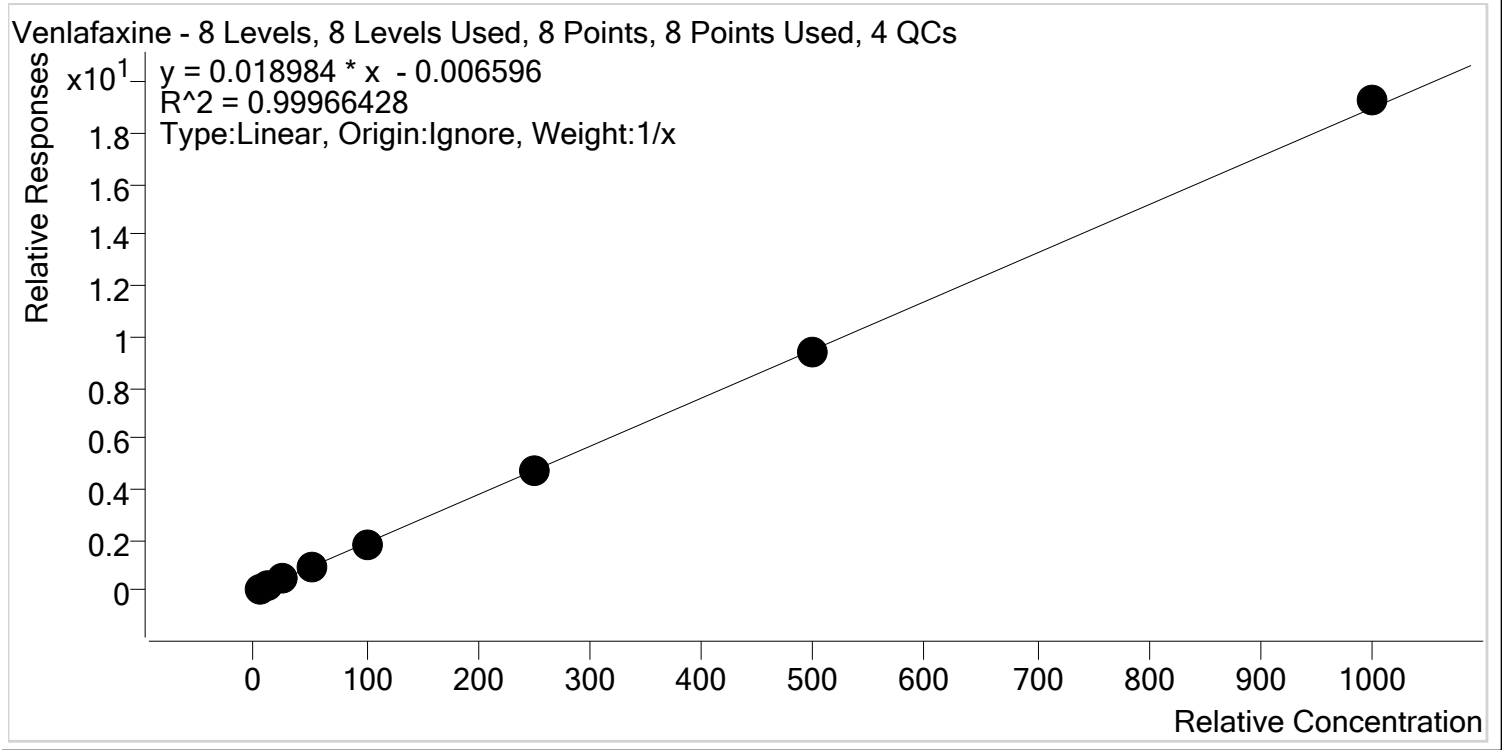


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.4
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.0
p1 Cal 3 -25ng	3	✓	25.0	25.0	99.8
p1 Cal 4-50ng	4	✓	50.0	50.6	101.2
p1 Cal 5-100ng	5	✓	100.0	100.5	100.5
p1 Cal 6-250ng	6	✓	250.0	251.4	100.5
p1 Cal 7-500ng	7	✓	500.0	503.5	100.7
p1 Cal 8-1000ng	8	✓	1000.0	978.8	97.9



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte Venlafaxine **Internal Standard** Venlafaxine-D6

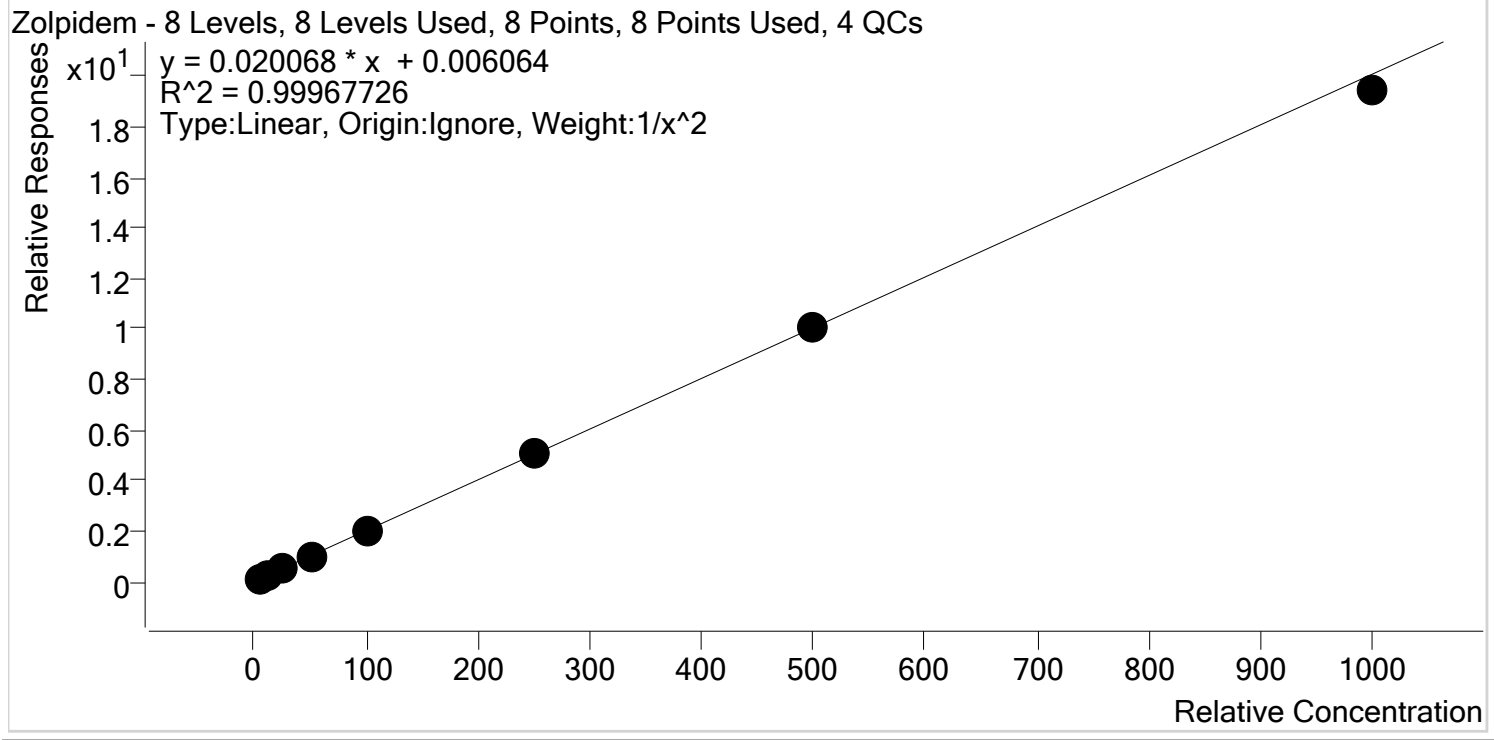


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.4	108.1
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.8
p1 Cal 3 -25ng	3	✓	25.0	24.3	97.3
p1 Cal 4-50ng	4	✓	50.0	49.3	98.5
p1 Cal 5-100ng	5	✓	100.0	96.7	96.7
p1 Cal 6-250ng	6	✓	250.0	246.2	98.5
p1 Cal 7-500ng	7	✓	500.0	492.2	98.4
p1 Cal 8-1000ng	8	✓	1000.0	1015.7	101.6



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Last Cal. Update 12/9/2019 8:48 AM
Analyst Name ISP\Datastor
Analyte Zolpidem **Internal Standard** Zolpidem-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.8
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.5
p1 Cal 3 -25ng	3	✓	25.0	25.4	101.4
p1 Cal 4-50ng	4	✓	50.0	51.0	102.0
p1 Cal 5-100ng	5	✓	100.0	100.0	100.0
p1 Cal 6-250ng	6	✓	250.0	251.5	100.6
p1 Cal 7-500ng	7	✓	500.0	499.5	99.9
p1 Cal 8-1000ng	8	✓	1000.0	967.6	96.8

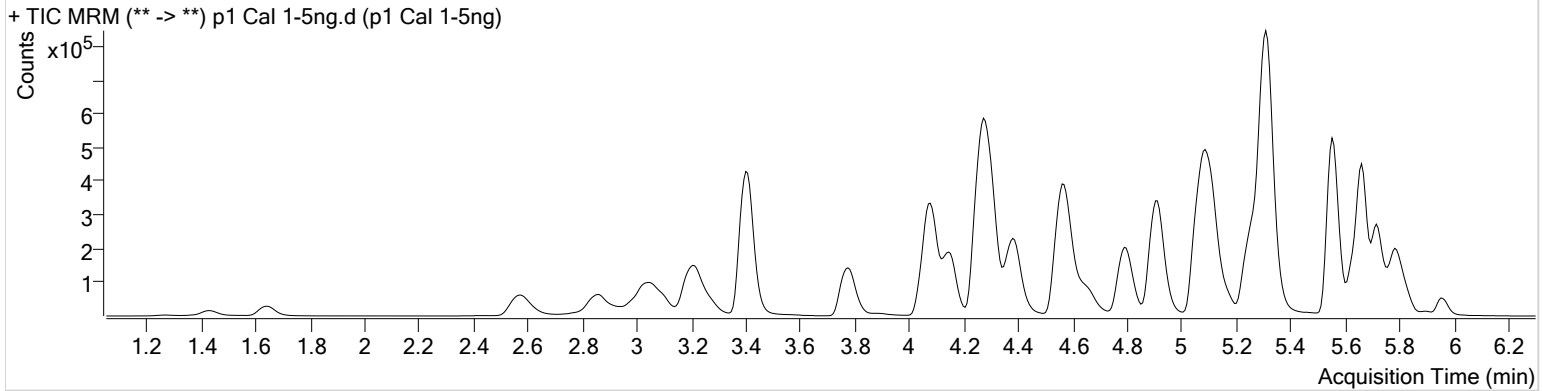
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Calibration Last Update 12/9/2019 8:48:01 AM

Instrument	Falco	Data File	p1 Cal 1-5ng.d
Type	Cal	Sample	p1 Cal 1-5ng
Acq. Method	MDQ P1 Combined 092319.m	Operator	Celena Shrum
Sample Position	P1-H12	Comment	
Injection Volume	2		
Acq. Date-Time	12/5/2019 1:39:36 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.170	1001	1428.73	70.8	166.10	39735	0.5067 ng/ml
7-aminoclonazepam	4.291	13027	1351.67	82.2	∞	96929	4.9029 ng/ml
a-hydroxyalprazolam	5.714	703	210.27	65.9	∞	6575	5.7613 ng/ml
alpha-PVP	4.398	80380	3179.18	49.9	359.25	688303	5.3075 ng/ml
Alprazolam	5.784	20822	188.27	99.6	∞	101340	5.2459 ng/ml
Amphetamine	3.095	98853	∞	55.5	1521.29	215143	4.8154 ng/ml
Benzoylcegonine	3.921	2372	72.81	6.1	21.60	14336	5.2280 ng/ml
Buprenorphine	5.815	2678	∞	18.8	∞	185418	0.5173 ng/ml
Bupropion	4.813	93681	386.76	57.3	304.61	636034	4.9105 ng/ml
Carisoprodol	5.733	11895	149.13	58.1	54.50	118711	5.0817 ng/ml
Citalopram	5.249	66389	2720.44	41.5	2505.90	588820	5.0003 ng/ml
Clonazepam	5.620	1940	53.41	39.4	868.51	7243	4.8050 ng/ml
Cocaine	4.298	72491	6490.44	44.8	4104.70	1078515	5.1969 ng/ml
Codeine	2.630	7316	228.68	103.5	1480.15	64119	4.5112 ng/ml
Cyclobenzaprine	5.637	54040	222.88	10.6	85.89	388334	4.9948 ng/ml
Dextromethorphan	5.292	44104	3129.64	80.1	801.79	394011	5.1670 ng/ml
Dextrorphan	4.154	20499	2356.15	210.3	9883.75	529048	5.0987 ng/ml
Diazepam	5.968	12309	194.12	87.9	214.88	118544	5.0269 ng/ml
Dihydrocodeine	2.601	20405	948.27	67.1	3079.05	219425	4.8781 ng/ml
Diphenhydramine	5.320	154522	1461.05	33.5	3341.95	2261756	5.3900 ng/ml
Doxylamine	4.581	182336	2389.71	98.2	2918.55	1485368	4.9520 ng/ml
EDDP	5.284	28283	587.89	42.8	658.56	307925	5.0192 ng/ml
Fentanyl	5.120	5168	665.03	75.0	735.46	562431	0.5065 ng/ml
Fluoxetine	5.722	55447	562.40	9.1	∞	460912	5.3213 ng/ml
Hydrocodone	3.065	18606	244.72	44.4	84.32	233551	4.9207 ng/ml
Hydromorphone	1.654	13319	317.88	75.3	∞	97999	4.9834 ng/ml
Ketamine	4.074	60436	432.33	36.4	149.67	538562	4.9783 ng/ml
Lamotrigine	4.315	5438	286.18	79.9	243.46	538562	4.8101 ng/ml
Lorazepam	5.755	843	15.10	64.6	4.58	7243	10.5966 ng/ml
Meprobamate	4.929	2835	191.93	24.6	31.74	28631	4.8669 ng/ml
Methadone	5.668	100047	252.33	52.3	373.76	916800	5.3553 ng/ml
Methamphetamine	3.269	92927	284.12	43.3	∞	627291	4.7780 ng/ml
Metoprolol	4.346	15536	20199.94	96.4	∞	1406626	4.7798 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.657	133163	12540.09	49.3	1241.84	688303	4.9900 ng/ml
Mitragynine	5.247	18533	1383.00	39.7	637.15	916800	4.4144 ng/ml
Morphine	1.273	2804	413.85	23.4	34.19	5448	4.9712 ng/ml
Norbuprenorphine	5.010	77	∞	63.2 Low	15.39	6079	0.2326 ng/ml
Nordiazepam	5.908	2961	∞	51.2	53.49	17197	5.0380 ng/ml
Norfentanyl	4.108	7832	86.99	38.6	88.76	748787	0.5059 ng/ml
Norhydrocodone	3.106	461	41.67	44.6	∞	55337	6.2182 ng/ml
Noroxycodone	2.964	13166	126.29	48.4	625.72	76813	5.0121 ng/ml
O-desmethyl-tramadol	3.408	135815	341.79	6.1	178.90	1417863	5.0683 ng/ml
Oxazepam	5.765	1002	3.17 Low	64.2	6.63 Low	12012	5.5849 ng/ml
Oxycodone	2.881	32583	481.65	32.1	903.06	294009	4.9864 ng/ml
Oxymorphone	1.437	8353	402.36	49.0	154.15	59394	4.9853 ng/ml
Phentermine	3.812	25294	4417.29	2.4	16.42	555761	4.7799 ng/ml
Promethazine	5.556	128279	8192.76	30.4	1446.28	1134001	5.2510 ng/ml
Quetiapine	5.565	87274	4739.65	59.4	2287.44	230154	4.8694 ng/ml
Sertraline	5.791	29757	164.93	89.8	925.85	253074	5.0247 ng/ml
Temazepam	5.832	10450	83.60	36.0	49.48	111506	5.0995 ng/ml
Tramadol	4.274	146951	1797.62	3.3	80.56	1406626	4.8904 ng/ml
Trazodone	5.167	87169	10342.12	80.2	∞	694650	5.0203 ng/ml
Venlafaxine	5.067	112386	4024.13	36.2	342.45	1170512	5.4052 ng/ml
Zolpidem	4.932	119336	∞	30.3	58.64	1124166	4.9876 ng/ml

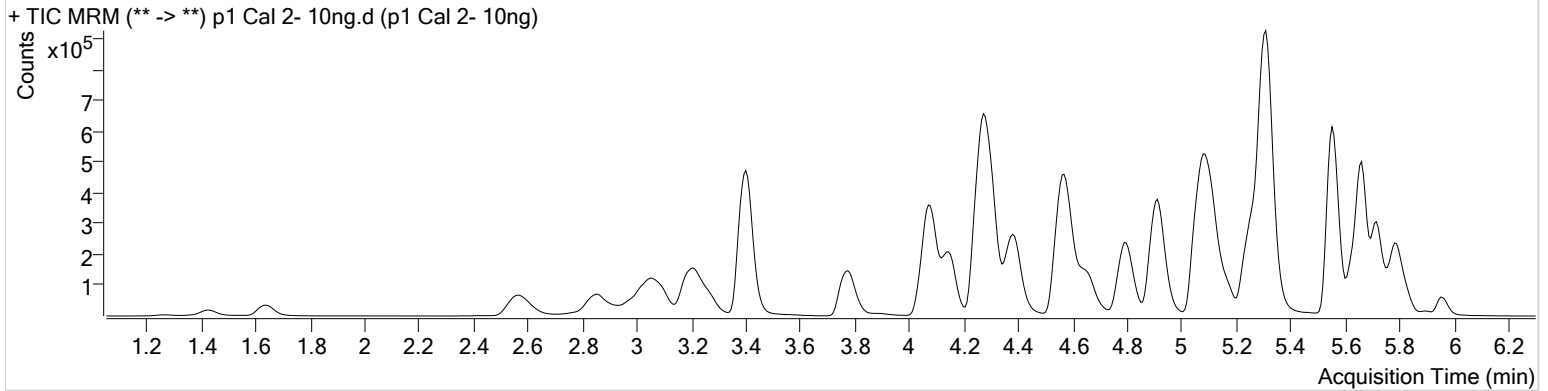
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Calibration Last Update 12/9/2019 8:48:01 AM

Instrument	Falco	Data File	p1 Cal 2- 10ng.d
Type	Cal	Sample	p1 Cal 2- 10ng
Acq. Method	MDQ P1 Combined 092319.m	Operator	Celena Shrum
Sample Position	P1-G12	Comment	
Injection Volume	2		
Acq. Date-Time	12/5/2019 1:50:20 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.170	1988	1034.62	69.7	167.33	41146	0.9825 ng/ml
7-aminoclonazepam	4.291	25444	∞	85.7	∞	100849	10.0069 ng/ml
a-hydroxyalprazolam	5.700	1209	19.03	76.0	347.27	6631	9.3051 ng/ml
alpha-PVP	4.398	158513	20666.47	50.8	2282.05	691942	10.1572 ng/ml
Alprazolam	5.784	38513	108.63	105.5	309.09	100120	9.8266 ng/ml
Amphetamine	3.088	195801	2671.94	55.3	955.40	218272	10.3588 ng/ml
Benzoylcegonine	3.914	3546	190.45	7.9	22.82	14460	9.2634 ng/ml
Buprenorphine	5.821	5588	116.70	17.0	55.60	187932	0.9874 ng/ml
Bupropion	4.813	184611	974.71	58.0	517.41	641237	9.9221 ng/ml
Carisoprodol	5.733	23383	1921.37	56.0	40.71	119610	9.8453 ng/ml
Citalopram	5.249	130908	6320.00	41.8	159156.80	593325	10.0177 ng/ml
Clonazepam	5.620	4230	∞	31.4	51.91	7516	10.5107 ng/ml
Cocaine	4.298	144753	7799.83	43.8	7355.21	1089548	10.1877 ng/ml
Codeine	2.617	14766	2206.89	103.9	1897.44	65405	9.7395 ng/ml
Cyclobenzaprine	5.637	107949	209.13	10.0	653.73	387865	10.0350 ng/ml
Dextromethorphan	5.292	86929	3734.93	79.2	44785.76	401115	9.9540 ng/ml
Dextrorphan	4.154	40783	∞	211.5	∞	534901	10.0222 ng/ml
Diazepam	5.961	24096	155.58	87.9	274.65	118535	9.8958 ng/ml
Dihydrocodeine	2.595	41419	1256.49	67.6	3494.44	228061	10.1320 ng/ml
Diphenhydramine	5.320	303929	69941.66	33.5	275.02	2283043	10.1368 ng/ml
Doxylamine	4.581	357380	4928.90	98.0	2908.68	1504782	9.8216 ng/ml
EDDP	5.284	60490	1487.74	41.9	∞	332191	10.0404 ng/ml
Fentanyl	5.113	10505	1936.79	75.6	619.77	566860	0.9921 ng/ml
Fluoxetine	5.722	109930	596.05	9.0	15714.68	468177	10.1858 ng/ml
Hydrocodone	3.065	37650	∞	41.6	85.02	240558	10.2440 ng/ml
Hydromorphone	1.648	27277	685.43	75.5	405.58	102377	9.9572 ng/ml
Ketamine	4.074	117540	241.68	38.0	240.50	548342	9.9843 ng/ml
Lamotrigine	4.315	10614	2906.48	78.5	479.60	548342	10.3292 ng/ml
Lorazepam	5.755	1758	∞	66.5	9.16 Low	7516	14.9760 ng/ml
Meprobamate	4.929	5784	469.10	26.7	106.63	29533	10.2070 ng/ml
Methadone	5.661	197693	888.76	51.4	1163.89	911456	10.2744 ng/ml
Methamphetamine	3.262	169371	607.80	43.0	1032.16	644888	10.2886 ng/ml
Metoprolol	4.346	31382	20981.72	94.0	1433.06	1428199	10.5944 ng/ml



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.657	261955	7483.22	48.4	686.60	691942	10.0629 ng/ml
Mitragynine	5.247	36655	3070.93	40.0	∞	911456	9.7443 ng/ml
Morphine	1.273	5688	388.20	24.3	157.86	5674	10.1012 ng/ml
Norbuprenorphine	5.030	63	25.77	150.4 High	134.23	5782	0.1426 ng/ml
Nordiazepam	5.908	5612	206.52	54.3	366.81	17682	9.8074 ng/ml
Norfentanyl	4.108	15651	∞	39.4	89.45	760983	0.9904 ng/ml
Norhydrocodone	3.106	1129	259.38	37.9	∞	56749	10.3673 ng/ml
Noroxycodone	2.957	25795	578.58	49.8	404.80	79992	9.7143 ng/ml
O-desmethyl-tramadol	3.408	266088	∞	6.3	∞	1459584	9.8102 ng/ml
Oxazepam	5.765	2052	16.76	64.7	4.65 Low	12103	10.8657 ng/ml
Oxycodone	2.874	65466	2812.95	31.9	1201.93	301108	9.9969 ng/ml
Oxymorphone	1.430	16273	184.03	48.9	252.27	59909	9.9158 ng/ml
Phentermine	3.812	49906	2301.10	2.4	42.27	566627	10.3529 ng/ml
Promethazine	5.556	249699	14086.28	30.5	8014.04	1141163	9.9748 ng/ml
Quetiapine	5.565	170382	2384.72	59.6	∞	232162	10.1129 ng/ml
Sertraline	5.791	58114	918.81	91.3	∞	258512	9.7743 ng/ml
Temazepam	5.825	20889	199.29	32.9	41.81	115071	9.7574 ng/ml
Tramadol	4.274	285066	456.63	3.3	251.95	1428199	10.2169 ng/ml
Trazodone	5.167	170870	43857.84	78.9	1058.02	709434	9.8963 ng/ml
Venlafaxine	5.067	219060	541.20	37.0	762.58	1185658	10.0799 ng/ml
Zolpidem	4.932	234433	54465.94	30.7	17385.73	1138969	9.9544 ng/ml

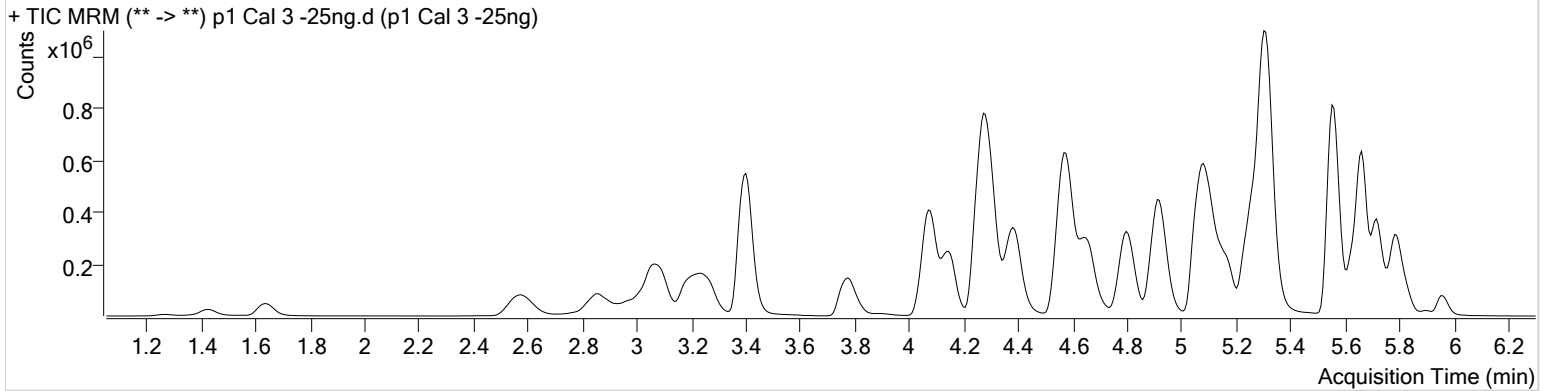
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Calibration Last Update 12/9/2019 8:48:01 AM

Instrument	Falco	Data File	p1 Cal 3 -25ng.d
Type	Cal	Sample	p1 Cal 3 -25ng
Acq. Method	MDQ P1 Combined 092319.m	Operator	Celena Shrum
Sample Position	P1-F12	Comment	
Injection Volume	2		
Acq. Date-Time	12/5/2019 2:00:54 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.177	4623	5530.15	68.6	7500.90	37880	2.4988 ng/ml
7-aminoclonazepam	4.291	58859	∞	82.3	8116.33	93440	26.3532 ng/ml
a-hydroxyalprazolam	5.707	3270	∞	62.3	79.92	6192	25.5560 ng/ml
alpha-PVP	4.398	365756	5693.19	51.1	611.79	652135	24.4845 ng/ml
Alprazolam	5.784	91942	2132.34	103.6	478.88	94630	24.8293 ng/ml
Amphetamine	3.088	441761	5695.78	56.0	2821.27	204443	26.3689 ng/ml
Benzoylcegonine	3.914	7162	87.68	8.0	266.07	13414	23.8667 ng/ml
Buprenorphine	5.821	12631	173.66	16.8	5897.20	175671	2.2843 ng/ml
Bupropion	4.813	432568	375.18	57.4	974.24	608526	24.9967 ng/ml
Carisoprodol	5.733	54462	5386.35	55.3	347.63	112230	24.3303 ng/ml
Citalopram	5.249	300662	18232.33	42.5	389.13	559446	24.7507 ng/ml
Clonazepam	5.620	9328	526.28	32.8	9923.17	6864	25.9152 ng/ml
Cocaine	4.291	327647	20597.38	44.6	10794.34	1023368	24.4289 ng/ml
Codeine	2.617	34421	108.57	102.6	5952.04	61108	25.5414 ng/ml
Cyclobenzaprine	5.637	250358	731.88	10.1	707.15	362167	24.9926 ng/ml
Dextromethorphan	5.292	201815	4522.92	78.6	183.59	369403	25.0120 ng/ml
Dextrorphan	4.147	94816	518.78	211.5	13723.40	505472	24.6410 ng/ml
Diazepam	5.961	56023	366.19	88.4	468.10	109384	25.0178 ng/ml
Dihydrocodeine	2.588	96404	150.74	67.4	111.29	213062	26.1898 ng/ml
Diphenhydramine	5.320	695565	18763.39	33.9	12237.33	2118805	24.4319 ng/ml
Doxylamine	4.581	831719	6094.09	97.8	29320.50	1398022	24.9909 ng/ml
EDDP	5.284	186425	1240.94	42.8	22989.83	419691	24.6238 ng/ml
Fentanyl	5.113	24483	4378.72	73.6	62090.96	533207	2.4153 ng/ml
Fluoxetine	5.722	249116	15121.74	9.3	74771.45	440186	24.2532 ng/ml
Hydrocodone	3.065	84748	118.30	42.4	∞	225068	25.4863 ng/ml
Hydromorphone	1.648	63093	420.00	74.9	123.10	93744	25.4509 ng/ml
Ketamine	4.074	271225	705.12	38.6	870.53	515971	25.2422 ng/ml
Lamotrigine	4.315	24330	1894.78	80.6	1356.90	515971	26.8980 ng/ml
Lorazepam	5.755	3632	∞	64.6	7.11	6864	25.9795 ng/ml
Meprobamate	4.929	12928	233.45	25.5	103.94	26747	26.0621 ng/ml
Methadone	5.661	452523	1365.07	51.5	7273.10	864340	24.2712 ng/ml
Methamphetamine	3.262	373707	2553.57	42.6	324.49	611166	27.0773 ng/ml
Metoprolol	4.346	70187	75871.63	95.5	∞	1355228	26.4590 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.657	602411	11609.32	48.9	4696.35	652135	25.0029 ng/ml
Mitragynine	5.247	86774	4933.98	39.6	∞	864340	25.7808 ng/ml
Morphine	1.273	12963	243.52	21.6	623.55	5381	24.8947 ng/ml
Norbuprenorphine	5.024	314	24.09	79.1	100.95	5410	2.5216 ng/ml
Nordiazepam	5.908	12777	824.95	60.3	274.93	16320	25.1017 ng/ml
Norfentanyl	4.108	36956	1642.83	38.4	447.15	729489	2.4326 ng/ml
Norhydrocodone	3.093	2881	57.56	38.6	∞	55319	21.9173 ng/ml
Noroxycodone	2.950	61949	737.56	46.2	1726.48	73949	25.7528 ng/ml
O-desmethyl-tramadol	3.401	620687	18428.14	6.1	1945.54	1374951	24.5606 ng/ml
Oxazepam	5.765	4341	49.14	85.3	∞	11177	24.2842 ng/ml
Oxycodone	2.868	151228	2466.92	31.9	1517.45	281339	25.0442 ng/ml
Oxymorphone	1.430	39547	850.97	45.7	365.09	58241	25.2507 ng/ml
Phentermine	3.805	113152	4693.76	2.2	207.37	529725	26.7893 ng/ml
Promethazine	5.556	584640	2596.20	30.4	496.52	1074670	24.5100 ng/ml
Quetiapine	5.565	388913	569.37	59.1	146042.69	212001	26.3831 ng/ml
Sertraline	5.791	133091	756.15	91.4	946.14	237573	24.6314 ng/ml
Temazepam	5.832	49301	309.20	30.1	45.82	107872	24.3713 ng/ml
Tramadol	4.274	643896	27669.98	3.3	245.25	1355228	25.6442 ng/ml
Trazodone	5.167	400462	30269.28	77.9	∞	670739	24.9506 ng/ml
Venlafaxine	5.067	506024	1100.60	37.3	329.45	1111630	24.3263 ng/ml
Zolpidem	4.932	547641	29048.30	30.8	483.06	1063739	25.3518 ng/ml

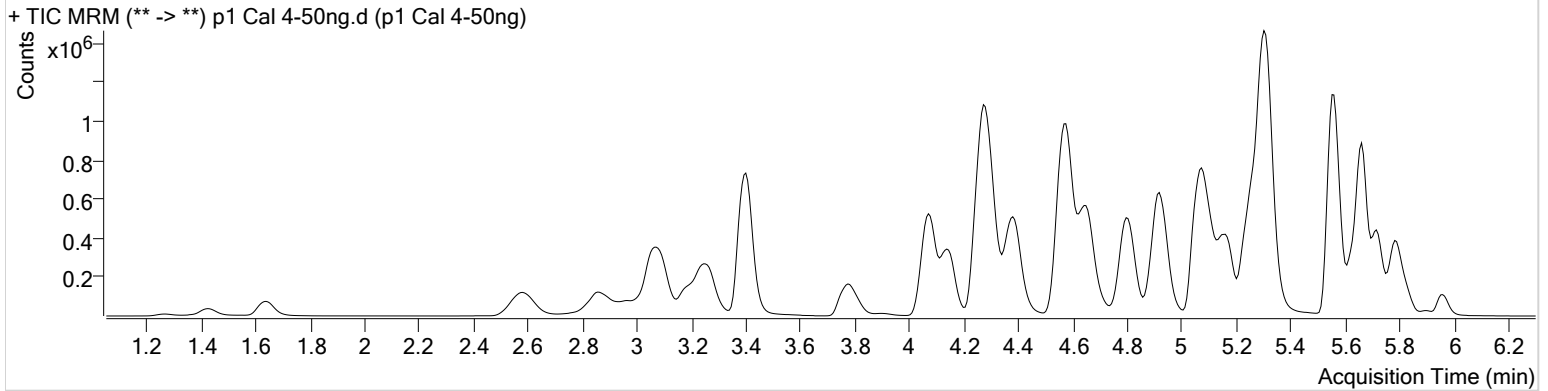
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Calibration Last Update 12/9/2019 8:48:01 AM

Instrument	Falco	Data File	p1 Cal 4-50ng.d
Type	Cal	Sample	p1 Cal 4-50ng
Acq. Method	MDQ P1 Combined 092319.m	Operator	Celena Shrum
Sample Position	P1-E12	Comment	
Injection Volume	2		
Acq. Date-Time	12/5/2019 2:11:30 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.170	9093	∞	73.6	661.72	38304	4.8716 ng/ml
7-aminoclonazepam	4.285	106644	∞	82.9	15635.82	85435	53.1202 ng/ml
a-hydroxyalprazolam	5.707	6373	71.34	67.4	195.00	6171	49.2705 ng/ml
alpha-PVP	4.391	753569	19155.21	50.7	777.28	659727	49.5908 ng/ml
Alprazolam	5.784	186240	1023.57	104.4	1047.97	94347	50.4527 ng/ml
Amphetamine	3.081	875729	∞	55.4	60103.56	202596	53.7549 ng/ml
Benzoylcegonine	3.907	14526	644.22	7.7	154.86	13840	49.9520 ng/ml
Buprenorphine	5.821	25146	416.93	16.9	247.83	171001	4.5957 ng/ml
Bupropion	4.807	875635	1940.62	57.6	1339.40	612963	50.5763 ng/ml
Carisoprodol	5.733	109274	∞	55.8	725.70	112037	48.8274 ng/ml
Citalopram	5.243	601070	13611.43	42.1	4471.67	553278	50.2804 ng/ml
Clonazepam	5.620	18738	1371.57	35.9	1862.66	6921	51.9970 ng/ml
Cocaine	4.291	667723	22105.17	44.2	15800.44	1024361	49.6464 ng/ml
Codeine	2.610	69203	169.97	101.4	5070.45	61331	51.9968 ng/ml
Cyclobenzaprine	5.637	453366	273.41	10.3	266.27	328224	49.9842 ng/ml
Dextromethorphan	5.292	390012	15106.68	79.9	37862.15	360089	49.5344 ng/ml
Dextrorphan	4.147	195977	16663.50	208.7	17447.57	510227	50.4446 ng/ml
Diazepam	5.961	107953	674.72	87.0	∞	104708	50.4175 ng/ml
Dihydrocodeine	2.581	196144	206.46	66.9	6580.95	216188	53.1536 ng/ml
Diphenhydramine	5.320	1385279	539587.84	33.5	16944.58	2095039	48.8191 ng/ml
Doxylamine	4.574	1673919	11041.01	97.7	74707.46	1403987	50.3417 ng/ml
EDDP	5.284	385140	21946.86	43.2	362.76	438046	48.8287 ng/ml
Fentanyl	5.113	47326	11833.24	74.2	42704.30	499741	4.9506 ng/ml
Fluoxetine	5.716	397229	18626.52	9.0	3551.52	339363	49.9375 ng/ml
Hydrocodone	3.058	172666	∞	42.7	303.47	237450	49.7754 ng/ml
Hydromorphone	1.641	128512	1208.13	73.8	787.35	95997	50.8171 ng/ml
Ketamine	4.074	554143	1010.52	38.6	612.52	522606	51.4488 ng/ml
Lamotrigine	4.308	49005	4032.88	79.1	1620.59	522606	54.6833 ng/ml
Lorazepam	5.755	7925	87.07	61.8	∞	6921	48.9347 ng/ml
Meprobamate	4.929	26798	∞	26.6	357.91	27225	53.6873 ng/ml
Methadone	5.661	894192	28906.20	51.2	1291.76	847142	48.5534 ng/ml
Methamphetamine	3.262	742520	1060.85	42.5	584.09	614385	55.8147 ng/ml
Metoprolol	4.346	138868	492729.97	98.1	∞	1376856	52.5664 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.657	1194514	∞	49.0	5846.42	659727	49.3067 ng/ml
Mitragynine	5.247	170315	16435.43	39.4	15916.93	847142	52.6033 ng/ml
Morphine	1.266	25657	223.62	23.1	1614.84	5229	51.1702 ng/ml
Norbuprenorphine	5.010	567	3505.92	99.1	61.87	5450	4.8431 ng/ml
Nordiazepam	5.908	23972	366.81	57.0	1004.17	15194	51.2164 ng/ml
Norfentanyl	4.102	75608	1128.33	37.0	784.07	735327	4.9327 ng/ml
Norhydrocodone	3.106	6531	59.45	40.3	229.51	57336	44.0980 ng/ml
Noroxycodone	2.950	124686	802.58	46.0	1572.22	72605	53.1325 ng/ml
O-desmethyl-tramadol	3.401	1273226	93105.47	6.2	3124.57	1393460	49.8985 ng/ml
Oxazepam	5.765	9540	78.00	69.9	54.03	11350	52.0118 ng/ml
Oxycodone	2.868	312732	1743.81	31.5	935.01	285280	51.3067 ng/ml
Oxymorphone	1.430	76575	1464.34	46.6	1152.65	54956	52.1414 ng/ml
Phentermine	3.805	228732	3471.51	2.1	909.36	529999	55.3289 ng/ml
Promethazine	5.556	1073882	2440.73	29.9	11493.00	968000	49.7790 ng/ml
Quetiapine	5.565	755525	2038.83	59.8	1682.70	203497	54.1488 ng/ml
Sertraline	5.791	173041	6652.00	91.0	19808.44	150612	50.7088 ng/ml
Temazepam	5.825	99780	449.55	31.1	138.45	108259	49.0181 ng/ml
Tramadol	4.267	1318441	1929.61	3.4	284.41	1376856	52.6582 ng/ml
Trazodone	5.167	792335	855.51	78.3	570.95	658279	50.5885 ng/ml
Venlafaxine	5.067	1038110	2862.41	36.8	1592.36	1117657	49.2748 ng/ml
Zolpidem	4.932	1109478	118262.80	31.1	25762.94	1077870	50.9894 ng/ml

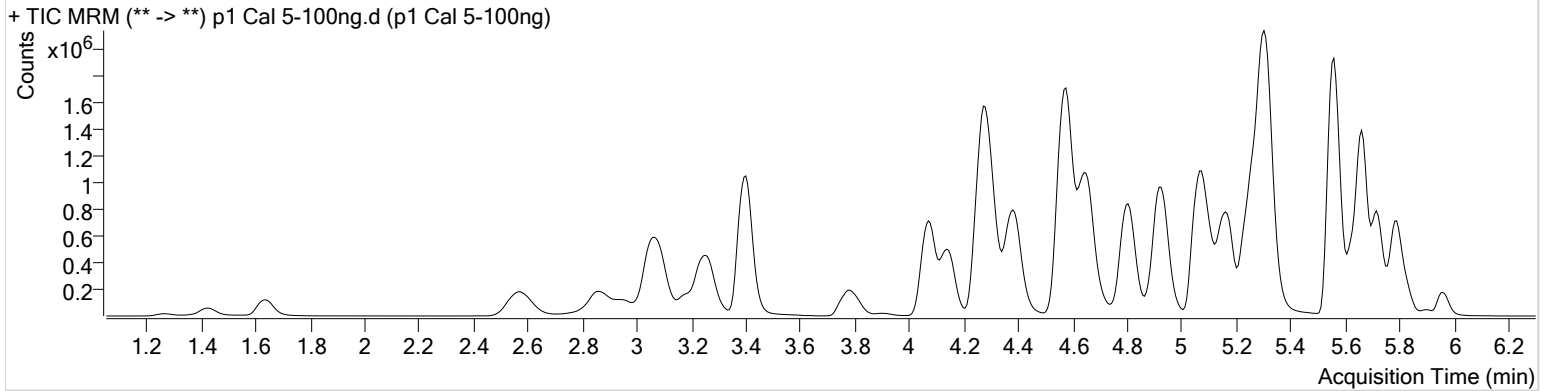
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Calibration Last Update 12/9/2019 8:48:01 AM

Instrument Falco **Data File** p1 Cal 5-100ng.d
Type Cal **Sample** p1 Cal 5-100ng
Acq. Method MDQ P1 Combined 092319.m **Operator** Celena Shrum
Sample Position P1-D12 **Comment**
Injection Volume 2
Acq. Date-Time 12/5/2019 2:22:06 PM
Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.170	17254	3177.58	69.7	105136.66	36993	9.5828 ng/ml
7-aminoclonazepam	4.285	199708	18807.08	82.6	8681.11	81166	105.5976 ng/ml
a-hydroxyalprazolam	5.700	11591	114.93	69.1	150.09	5902	93.0303 ng/ml
alpha-PVP	4.391	1438359	101818.52	50.7	13695.16	643950	96.7218 ng/ml
Alprazolam	5.784	345511	456.75	103.8	409.40	91866	96.1319 ng/ml
Amphetamine	3.075	1638688	11843.46	53.6	10348.77	197757	103.9713 ng/ml
Benzoylcegonine	3.907	27414	3802.17	8.1	102.20	13622	98.6604 ng/ml
Buprenorphine	5.821	48064	1109.19	16.4	11201.46	162353	9.1781 ng/ml
Bupropion	4.807	1710737	117189.63	57.7	18102.85	604190	100.5792 ng/ml
Carisoprodol	5.733	196540	8355.02	55.4	2023.23	101075	97.2724 ng/ml
Citalopram	5.243	1139803	21722.28	42.0	13966.15	525720	100.5865 ng/ml
Clonazepam	5.614	36111	2740.50	33.1	∞	6613	105.2634 ng/ml
Cocaine	4.291	1247898	104423.06	44.7	93867.48	978452	97.0539 ng/ml
Codeine	2.596	130721	3420.50	100.4	11797.76	59309	102.3589 ng/ml
Cyclobenzaprine	5.631	946953	43672.30	10.1	1449.33	348803	98.2871 ng/ml
Dextromethorphan	5.292	756895	51969.19	79.7	30678.64	351322	98.4777 ng/ml
Dextrorphan	4.147	373949	1045.84	208.5	34527.43	496395	98.9260 ng/ml
Diazepam	5.961	213724	2208.48	88.1	1387.91	107005	97.7262 ng/ml
Dihydrocodeine	2.568	374173	6440.81	67.3	6365.29	210387	104.8037 ng/ml
Diphenhydramine	5.320	2629290	94771.63	33.7	17985.60	2009553	96.2239 ng/ml
Doxylamine	4.574	3343617	163704.07	96.7	19143.67	1414237	100.0810 ng/ml
EDDP	5.284	887770	25891.34	42.3	∞	502528	98.2029 ng/ml
Fentanyl	5.113	98183	10057.69	74.0	251.12	530462	9.6480 ng/ml
Fluoxetine	5.716	986043	1518.50	9.1	8012.19	439493	95.5251 ng/ml
Hydrocodone	3.058	328509	136.09	42.2	∞	229346	98.6277 ng/ml
Hydromorphone	1.641	246925	1904.91	74.2	∞	93443	100.4998 ng/ml
Ketamine	4.074	1061007	35320.47	39.0	523.21	513132	100.8224 ng/ml
Lamotrigine	4.315	87857	6024.00	79.4	1650.06	513132	100.8446 ng/ml
Lorazepam	5.755	14846	∞	57.7	63.04	6613	89.9344 ng/ml
Meprobamate	4.922	49790	∞	25.9	∞	26833	101.7334 ng/ml
Methadone	5.668	1754101	2701.89	52.2	29227.43	837780	95.9415 ng/ml
Methamphetamine	3.255	1379241	10010.86	43.0	4158.73	612656	105.9982 ng/ml
Metoprolol	4.346	254498	328931.09	96.3	∞	1338751	100.0489 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.657	2358879	∞	49.1	10817.79	643950	100.0734 ng/ml
Mitragynine	5.247	326798	47568.36	40.5	82719.61	837780	102.9772 ng/ml
Morphine	1.266	48070	1017.14	22.9	2845.03	5073	99.2306 ng/ml
Norbuprenorphine	5.017	1154	169.50	84.8	92.18	5577	10.0363 ng/ml
Nordiazepam	5.908	49408	546.91	58.2	494.78	16721	96.4613 ng/ml
Norfentanyl	4.102	146818	505.02	37.2	∞	713730	9.8637 ng/ml
Norhydrocodone	3.106	14015	133.01	39.8	74.16	56803	91.7454 ng/ml
Noroxycodone	2.943	238516	355.77	47.4	355.46	73020	101.3532 ng/ml
O-desmethyl-tramadol	3.401	2460201	32854.43	6.2	4429.43	1366963	98.4620 ng/ml
Oxazepam	5.758	18157	279.56	71.3	150.93	10772	103.8347 ng/ml
Oxycodone	2.868	597149	3740.86	31.8	2221.40	280491	99.8507 ng/ml
Oxymorphone	1.423	146049	∞	49.1	∞	53686	102.0924 ng/ml
Phentermine	3.805	421488	∞	2.2	∞	517513	105.4613 ng/ml
Promethazine	5.556	2268549	2217.83	30.0	710.50	1044358	97.2817 ng/ml
Quetiapine	5.565	1443210	49072.61	59.9	1495.15	203665	104.0193 ng/ml
Sertraline	5.791	490530	937.11	91.1	49460.52	215837	100.4871 ng/ml
Temazepam	5.832	189987	1062.12	29.9	253.27	103804	97.2136 ng/ml
Tramadol	4.267	2492782	60659.18	3.4	165.22	1338751	103.3008 ng/ml
Trazodone	5.167	1584089	∞	78.3	116728.56	664147	100.5243 ng/ml
Venlafaxine	5.067	2000842	47138.87	37.2	7668.93	1093413	96.7403 ng/ml
Zolpidem	4.932	2143819	153810.43	31.2	32651.01	1064599	100.0428 ng/ml

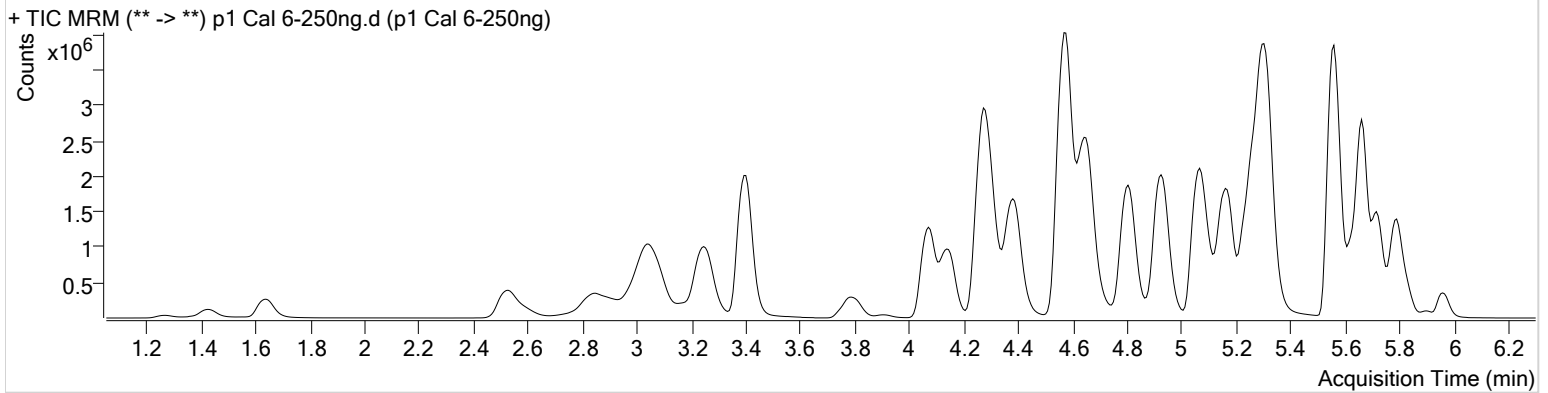
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Calibration Last Update 12/9/2019 8:48:01 AM

Instrument Falco **Data File** p1 Cal 6-250ng.d
Type Cal **Sample** p1 Cal 6-250ng
Acq. Method MDQ P1 Combined 092319.m **Operator** Celena Shrum
Sample Position P1-C12 **Comment**
Injection Volume 2
Acq. Date-Time 12/5/2019 2:32:44 PM
Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.163	43040	514.12	71.3	3701.87	36012	24.5741 ng/ml
7-aminoclonazepam	4.285	376427	38944.28	82.1	10947.21	63979	253.7812 ng/ml
a-hydroxyalprazolam	5.700	27223	181.70	66.8	160.89	5256	244.1354 ng/ml
alpha-PVP	4.391	3568347	58435.41	50.6	5538.97	628557	245.4207 ng/ml
Alprazolam	5.784	796336	∞	102.1	∞	81961	248.3542 ng/ml
Amphetamine	3.041	3779026	16673.38	54.0	23500.49	186688	255.4385 ng/ml
Benzoylcegonine	3.907	72110	299.84	7.7	∞	13962	258.1200 ng/ml
Buprenorphine	5.821	113973	2062.62	16.1	4625.58	142276	24.7103 ng/ml
Bupropion	4.807	4210389	546913.96	57.7	∞	596644	251.1777 ng/ml
Carisoprodol	5.733	408758	10794.24	53.8	1263.61	81549	250.6282 ng/ml
Citalopram	5.243	2525276	116679.93	41.9	29362.18	467163	251.1500 ng/ml
Clonazepam	5.614	81562	3084.80	32.4	506.30	6141	256.5682 ng/ml
Cocaine	4.291	2949799	516935.64	43.6	64389.89	902821	248.5008 ng/ml
Codeine	2.550	302894	17419.72	100.3	16660.40	53904	262.2461 ng/ml
Cyclobenzaprine	5.631	2123244	79781.76	10.2	25863.61	304827	252.2419 ng/ml
Dextromethorphan	5.292	1694096	44187.52	78.9	257.34	310843	249.0364 ng/ml
Dextrorphan	4.147	912060	843.19	209.9	4084.73	480558	249.2142 ng/ml
Diazepam	5.961	501673	10326.64	87.7	1053.50	98801	248.5250 ng/ml
Dihydrocodeine	2.528	884235	112112.31	66.4	404.70	202613	258.0948 ng/ml
Diphenhydramine	5.320	5930928	229682.13	33.5	25686.00	1767969	246.1099 ng/ml
Doxylamine	4.574	8499216	324509.38	96.6	175761.87	1424178	253.0155 ng/ml
EDDP	5.278	2454503	65098.77	42.4	594.53	540448	252.6043 ng/ml
Fentanyl	5.113	243099	33142.07	75.9	11269.59	507693	24.9137 ng/ml
Fluoxetine	5.716	2340579	48451.04	8.9	2400954.95	402419	247.3029 ng/ml
Hydrocodone	3.045	833234	140.49	42.9	∞	216257	266.3115 ng/ml
Hydromorphone	1.641	604959	1551.35	74.1	2892.04	91256	252.4179 ng/ml
Ketamine	4.074	2576695	881.62	38.7	22903.99	500065	252.0276 ng/ml
Lamotrigine	4.308	174476	1773.42	79.3	5415.82	500065	206.7562 ng/ml
Lorazepam	5.755	37836	∞	57.0	134.44	6141	235.8955 ng/ml
Meprobamate	4.929	114267	10754.90	26.0	1853.22	24517	256.4297 ng/ml
Methadone	5.661	4265925	138644.13	51.1	33787.66	783620	248.8548 ng/ml
Methamphetamine	3.249	3321405	21677.35	42.9	2187.07	623078	254.2060 ng/ml
Metoprolol	4.346	540367	32505.01	96.3	18188.75	1308634	218.6054 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.650	5799149	447220.44	48.5	3947.01	628557	252.5226 ng/ml
Mitragynine	5.241	769805	36847.63	39.6	∞	783620	260.8157 ng/ml
Morphine	1.266	113931	1919.71	22.1	6276.50	4906	243.8327 ng/ml
Norbuprenorphine	5.010	2904	517.19	81.8	225.88	5586	25.8271 ng/ml
Nordiazepam	5.908	120608	809.79	57.9	864.00	15412	256.4938 ng/ml
Norfentanyl	4.102	346413	1422.09	37.4	635.90	664408	24.9937 ng/ml
Norhydrocodone	3.100	40085	1398.17	40.3	80.49	56867	256.1064 ng/ml
Noroxycodone	2.923	555774	1992.19	48.1	579.80	71918	240.2280 ng/ml
O-desmethyl-tramadol	3.401	6087392	163608.32	6.1	1267.88	1330802	250.5294 ng/ml
Oxazepam	5.758	43292	87.17	71.8	173.58	10570	251.6211 ng/ml
Oxycodone	2.841	1525318	1884.35	31.5	2565.93	284044	252.2016 ng/ml
Oxymorphone	1.423	344978	872.78	47.8	∞	51596	251.3678 ng/ml
Phentermine	3.805	952357	∞	2.2	∞	492012	252.2650 ng/ml
Promethazine	5.556	5455046	252576.91	29.4	191687.32	982653	248.3135 ng/ml
Quetiapine	5.565	3170974	201900.28	60.1	6747.84	184963	252.7016 ng/ml
Sertraline	5.791	1128967	27530.91	89.0	21075.74	196242	254.6482 ng/ml
Temazepam	5.832	465180	2911.94	29.8	495.34	98117	251.6170 ng/ml
Tramadol	4.266	5808615	147572.83	3.4	817.20	1308634	247.5761 ng/ml
Trazodone	5.167	3876059	214205.87	77.8	300461.42	650965	251.3745 ng/ml
Venlafaxine	5.067	4930629	62296.92	36.7	16126.29	1056397	246.2095 ng/ml
Zolpidem	4.925	5274406	245777.51	30.9	70848.61	1043644	251.5319 ng/ml

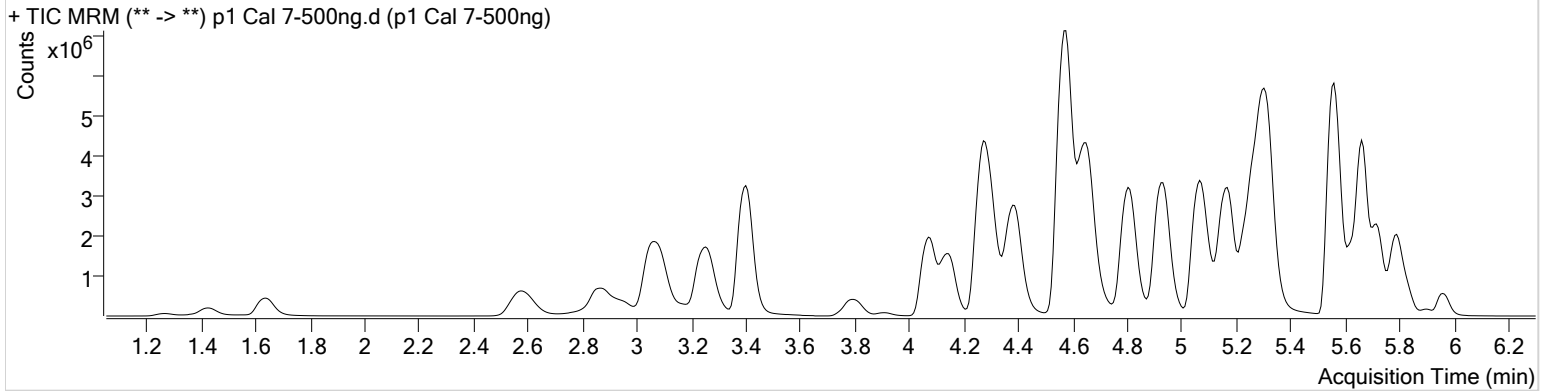
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Calibration Last Update 12/9/2019 8:48:01 AM

Instrument Falco **Data File** p1 Cal 7-500ng.d
Type Cal **Sample** p1 Cal 7-500ng
Acq. Method MDQ P1 Combined 092319.m **Operator** Celena Shrum
Sample Position P1-B12 **Comment**
Injection Volume 2
Acq. Date-Time 12/5/2019 2:43:19 PM
Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.170	77536	8501.34	72.7	1189.22	31381	50.8150 ng/ml
7-aminoclonazepam	4.291	492248	12581.17	83.1	10157.64	44690	475.9038 ng/ml
a-hydroxyalprazolam	5.700	48911	225.32	66.9	212.89	4700	489.7823 ng/ml
alpha-PVP	4.391	6410705	354183.40	50.2	111261.29	560295	494.3584 ng/ml
Alprazolam	5.784	1348391	∞	103.8	12213.37	68112	506.0346 ng/ml
Amphetamine	3.081	5476006	34232.61	54.1	44665.80	170928	404.8584 ng/ml
Benzoylcegonine	3.907	141962	16747.19	7.6	875.16	13897	513.5953 ng/ml
Buprenorphine	5.821	194258	∞	15.9	2596.07	113716	52.6120 ng/ml
Bupropion	4.807	7717418	476380.18	57.1	136345.62	543277	505.9646 ng/ml
Carisoprodol	5.733	626959	531917.22	55.6	5352.35	62185	504.0505 ng/ml
Citalopram	5.242	3968992	82987.48	42.2	100524.83	373583	493.8480 ng/ml
Clonazepam	5.614	139283	7087.43	33.6	96368.24	5581	482.4078 ng/ml
Cocaine	4.291	4938303	334419.81	43.6	42500.73	747711	502.2323 ng/ml
Codeine	2.603	510032	265.02	101.2	494.97	47110	506.0377 ng/ml
Cyclobenzaprine	5.631	3448113	59558.86	10.1	7760.03	248493	502.5485 ng/ml
Dextromethorphan	5.292	2690613	52430.01	78.6	∞	247704	496.2927 ng/ml
Dextrorphan	4.147	1622008	4603.91	210.5	61175.89	429628	495.7308 ng/ml
Diazepam	5.961	870275	7336.02	87.6	3458.19	85308	499.3786 ng/ml
Dihydrocodeine	2.568	1550689	21607.79	67.0	337.56	191063	480.5304 ng/ml
Diphenhydramine	5.320	9647889	258871.97	33.2	27825.63	1417037	499.0991 ng/ml
Doxylamine	4.574	15714804	15563.48	96.7	385828.55	1303720	511.3055 ng/ml
EDDP	5.284	4677559	368.37	42.8	44020.28	522249	498.2525 ng/ml
Fentanyl	5.113	447674	25853.91	75.5	816710.17	456867	50.9531 ng/ml
Fluoxetine	5.716	3883642	79100.21	9.0	17565.89	332551	496.3409 ng/ml
Hydrocodone	3.052	1467418	147.03	41.9	∞	204505	496.4726 ng/ml
Hydromorphone	1.641	1104308	3074.91	73.9	2366.56	84275	499.1314 ng/ml
Ketamine	4.074	4607770	308733.70	38.4	2396.80	454460	496.4189 ng/ml
Lamotrigine	4.315	244327	3058.81	78.3	2935.70	454460	319.2381 ng/ml
Lorazepam	5.755	70343	2834.17	57.3	626.52	5581	476.0083 ng/ml
Meprobamate	4.929	191245	∞	25.6	∞	21998	478.8397 ng/ml
Methadone	5.661	7455232	720173.63	50.5	85583.77	683830	497.9935 ng/ml
Methamphetamine	3.255	5827559	75915.95	42.6	2284.40	595992	468.2481 ng/ml
Metoprolol	4.346	830767	∞	96.5	71201.48	1180486	373.3427 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.657	10201590	∞	48.6	15090.60	560295	498.6503 ng/ml
Mitragynine	5.241	1292447	55851.28	40.0	62566.63	683830	502.6894 ng/ml
Morphine	1.266	199386	3974.10	21.8	1605.08	4166	502.9478 ng/ml
Norbuprenorphine	5.017	5349	1083.09	85.8	270.60	5427	49.3299 ng/ml
Nordiazepam	5.908	220534	1570.44	57.2	1022.01	14264	507.3373 ng/ml
Norfentanyl	4.102	585254	42476.30	37.2	700.91	551280	50.8865 ng/ml
Norhydrocodone	3.106	68603	261.12	41.3	334.33	48608	509.5474 ng/ml
Noroxycodone	2.943	966921	1621.60	47.3	311.19	61489	489.1582 ng/ml
O-desmethyl-tramadol	3.401	11058846	129700.35	6.0	24041.72	1193971	507.4770 ng/ml
Oxazepam	5.758	87250	376.59	70.3	186.66	10845	493.7837 ng/ml
Oxycodone	2.868	2844955	3784.81	31.6	7798.38	269046	496.8341 ng/ml
Oxymorphone	1.423	625303	∞	47.1	∞	46665	504.0817 ng/ml
Phentermine	3.805	1580486	∞	2.2	∞	442402	466.5900 ng/ml
Promethazine	5.556	9393168	1783.52	29.3	106203.82	831027	505.3888 ng/ml
Quetiapine	5.571	5001088	23429.17	58.7	42422.74	155204	475.6143 ng/ml
Sertraline	5.791	1634399	71116.55	92.4	1515.57	144741	500.0009 ng/ml
Temazepam	5.832	858615	13203.66	29.9	2935.74	88616	514.0872 ng/ml
Tramadol	4.267	9848449	65903.73	3.3	556.09	1180486	466.1736 ng/ml
Trazodone	5.167	6905541	∞	78.3	177392.71	579340	503.4982 ng/ml
Venlafaxine	5.067	8877962	327232.12	36.6	64924.75	950764	492.2249 ng/ml
Zolpidem	4.932	9598719	238118.60	30.4	194696.79	957001	499.4956 ng/ml

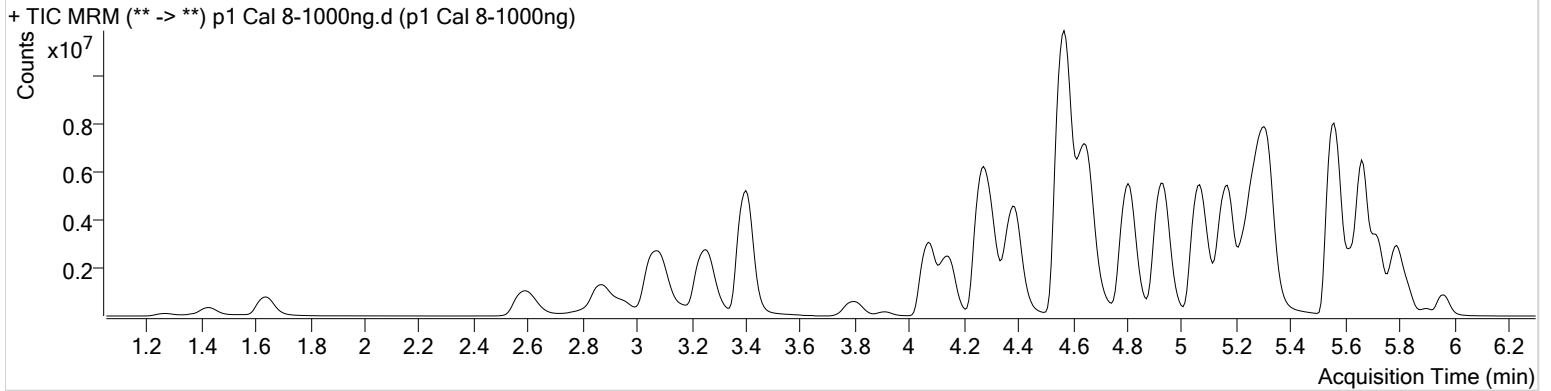
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Urine Run 120519 CS\QuantResults\MDQ.batch.bin
Calibration Last Update 12/9/2019 8:48:01 AM

Instrument Falco **Data File** p1 Cal 8-1000ng.d
Type Cal **Sample** p1 Cal 8-1000ng
Acq. Method MDQ P1 Combined 092319.m **Operator** Celena Shrum
Sample Position P1-A12 **Comment**
Injection Volume 2
Acq. Date-Time 12/5/2019 2:53:55 PM
Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.170	146045	3909.88	70.7	77806.52	28001	107.2800 ng/ml
7-aminoclonazepam	4.291	541587	9969.80	82.7	18307.31	26635	879.2959 ng/ml
a-hydroxyalprazolam	5.700	84197	520.80	63.5	314.79	3870	1023.1589 ng/ml
alpha-PVP	4.391	11225290	936684.07	50.1	96696.59	478201	1013.9590 ng/ml
Alprazolam	5.784	2181947	∞	103.7	∞	55823	999.1247 ng/ml
Amphetamine	3.088	7856242	120844.17	53.9	199768.33	148920	667.3242 ng/ml
Benzoylcegonine	3.907	302667	20843.23	7.5	702.86	14847	1028.0765 ng/ml
Buprenorphine	5.821	302197	∞	16.1	4879.70	78365	118.6752 ng/ml
Bupropion	4.807	13713820	443556.22	57.3	185182.32	492623	991.8730 ng/ml
Carisoprodol	5.740	867400	40780.62	53.8	364.21	40676	1066.0296 ng/ml
Citalopram	5.236	5635095	365803.25	42.0	69574.23	260866	1004.3664 ng/ml
Clonazepam	5.614	207036	1176.33	33.2	∞	4614	867.6533 ng/ml
Cocaine	4.291	7778634	263675.98	43.2	168423.46	589838	1002.7530 ng/ml
Codeine	2.623	798064	14337.32	103.1	9245.20	38189	977.5684 ng/ml
Cyclobenzaprine	5.631	5079342	1481.84	10.0	2144.06	183743	1001.2128 ng/ml
Dextromethorphan	5.285	3730793	61627.43	78.8	64175.43	169345	1006.5258 ng/ml
Dextrorphan	4.147	2773815	146601.30	211.1	1422.94	362071	1005.9226 ng/ml
Diazepam	5.961	1448330	∞	86.2	∞	69113	1025.8704 ng/ml
Dihydrocodeine	2.581	2573937	136002.65	66.9	27033.68	177504	859.0410 ng/ml
Diphenhydramine	5.320	13980591	207325.32	33.4	55778.48	1014520	1009.7894 ng/ml
Doxylamine	4.568	27655946	16671.78	96.7	10521.46	1190684	985.4918 ng/ml
EDDP	5.278	9398130	230647.09	41.5	99243.21	501967	1041.6352 ng/ml
Fentanyl	5.113	818409	211364.52	77.9	737804.34	402044	105.8198 ng/ml
Fluoxetine	5.716	5971698	300858.90	8.8	2252541.28	250954	1011.1331 ng/ml
Hydrocodone	3.052	2681144	191.30	41.7	192.67	199152	932.0204 ng/ml
Hydromorphone	1.641	1972731	1903.10	76.2	2291.96	78265	960.2989 ng/ml
Ketamine	4.074	7864131	151634.52	37.8	5942.95	402090	958.0771 ng/ml
Lamotrigine	4.315	282223	2871.31	76.4	36922.44	402090	417.1495 ng/ml
Lorazepam	5.755	146198	585.92	57.9	∞	4614	1187.1850 ng/ml
Meprobamate	4.929	283983	∞	26.0	6673.90	17605	888.9617 ng/ml
Methadone	5.661	12038647	232821.48	50.8	64654.96	544925	1008.7559 ng/ml
Methamphetamine	3.255	9743674	106307.95	42.1	55128.86	582406	802.8458 ng/ml
Metoprolol	4.346	1170383	178172.45	95.9	∞	905672	686.4785 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.650	17478721	226637.82	48.9	7483.22	478201	1001.3362 ng/ml
Mitragynine	5.241	2007939	92946.69	40.7	41546.12	544925	980.9749 ng/ml
Morphine	1.266	363536	22344.23	21.7	284.02	3811	1002.9122 ng/ml
Norbuprenorphine	5.010	10676	621.33	79.5	7811.78	5369	99.9420 ng/ml
Nordiazepam	5.908	394159	9159.18	58.5	3657.87	13233	978.0052 ng/ml
Norfentanyl	4.102	909015	135348.77	37.5	2918.13	421251	103.4286 ng/ml
Norhydrocodone	3.106	119223	510.09	40.8	702.41	38422	1116.4280 ng/ml
Noroxycodone	2.943	1652124	3942.37	47.5	534.21	52425	980.6303 ng/ml
O-desmethyl-tramadol	3.401	19312328	200600.89	6.0	25910.51	1034292	1023.2234 ng/ml
Oxazepam	5.758	178119	722.62	70.9	702.13	11431	955.9966 ng/ml
Oxycodone	2.868	5418272	6839.56	31.2	4462.53	261393	974.1478 ng/ml
Oxymorphone	1.423	1139495	1343.23	47.0	3310.28	46408	923.9423 ng/ml
Phentermine	3.805	2537563	∞	2.2	∞	397954	833.7357 ng/ml
Promethazine	5.556	14684600	∞	29.6	66645.13	656787	999.5013 ng/ml
Quetiapine	5.571	6982841	1259.63	58.7	104765.54	117970	874.2997 ng/ml
Sertraline	5.791	2328956	166588.19	90.9	91622.56	103691	994.7246 ng/ml
Temazepam	5.832	1553321	26506.76	30.2	3456.18	79056	1042.3741 ng/ml
Tramadol	4.260	15634552	59010.84	3.3	∞	905672	965.6432 ng/ml
Trazodone	5.167	11891599	269203.22	78.4	113795.28	513348	978.7707 ng/ml
Venlafaxine	5.067	15484267	30597.23	36.2	9908.31	803292	1015.7392 ng/ml
Zolpidem	4.932	16882459	207751.82	30.0	928465.75	869119	967.6409 ng/ml