

Worklist: 3820

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
C2019-2060	4	UCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2019-4343	3	UCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2019-4349	1	UCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2019-4402	4	UCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2019-4427	3	UCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2019-4505	4	UCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3028	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3028	2	BLOOD	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3028	3	BLOOD	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3055	1	UCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3090	1	UCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3129	1	UCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3130	1	UCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3142	1	UCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3144	1	UCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3152	1	UCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3153	1	UCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3282	1	UCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	

Methamphetamine was not evaluated in this run. Samples that presumptively screened for methamphetamine will be evaluated using AM #2. *cg*

CS

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

Extraction Date: 11/06/2019

Analyst: Celena Shrum

Plate lot#: 190729

Plate Expiration: 01/29/20

Mobile phase A: 5mM Amm Form + 0.01% FA

Mobile phase B: 0.01% Formic Acid in MeOH

Blank Blood Lot: 445283-3

Urine Blank lot: POC031319

Column: Agilent 120 EC-C18 (2.1x 100-2.7um)

LCMS-QQQ ID: 069901

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 00.5M ammonium hydroxide** in wells of analytical plate.
- 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 6. Transfer **300µL of blood+base/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: Methamphetamine not evaluated for this run.

Curve limits: 7-aminoclonazepam 5-500, Amphetamine 5-250, Dihydrocodeine 5-500, Lamotrigine 5-250, Lorazepam 5-500, Metoprolol 5-500, Norbuprenorphine 2.5-100, Norhydrocodone 5-500, Oxazepam 10-1000, Phentermine 5-500, Quetiapine 5-500 Oxazepam will be reported qualitatively in any blood cases.

M2019-4349 was inadvertently contaminated by an adjacent sample during the extraction process. This sample will be re-extracted.



Idaho State Police Forensic Services

AM #28 Blood and Urine Multi-Drug Screen 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: WS092519)

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:	09/25/19	
Prepared by:	Celena Shrum	
Expires:	01/31/2020	

*P2 compound. Not evaluated in this run.

cg

AM #28 Multi-Drug Quant. Results



Batch results

D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1 Meth Removed.batch.bin

Calibration Last Update

11/12/2019 8:42:49 AM

Instrument

Falco

Data File

p1 Negative Blood.d

Type

Sample

Sample

p1 Negative Blood

Acq. Method

MDQ P1 Combined 092319.m

Operator

Comment

Sample Position

P1-E2

Injection Volume

2

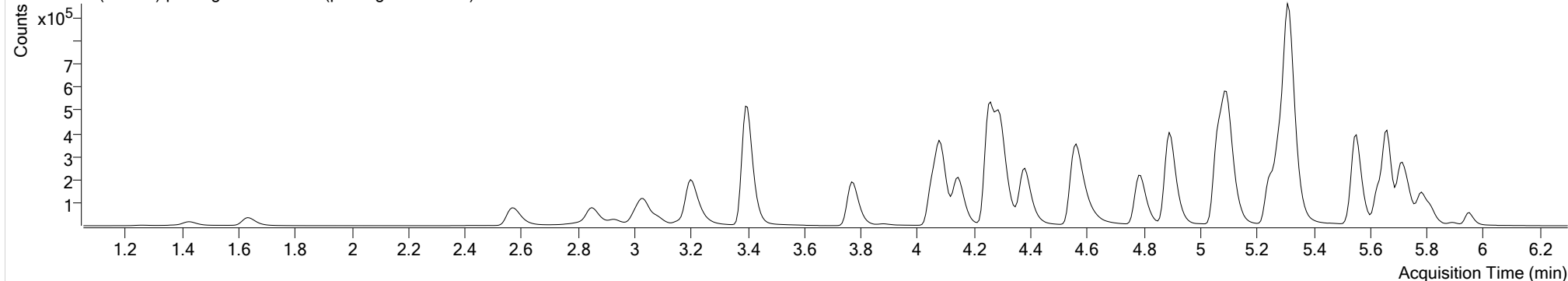
Acq. Date-Time

11/7/2019 2:07:26 AM

Sample Info.

Sample Chromatogram

+ TIC MRM (** -> **) p1 Negative Blood.d (p1 Negative Blood)



AM #28 Multi-Drug Quant. Results

**Batch results**

D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1 Meth Removed.batch.bin

Calibration Last Update

11/12/2019 8:42:49 AM

Instrument

Falco

Type

Sample

Acq. Method

MDQ P1 Combined 092319.m

Sample Position

P1-F2

Injection Volume

2

Acq. Date-Time

11/7/2019 2:18:01 AM

Sample Info.**Data File**

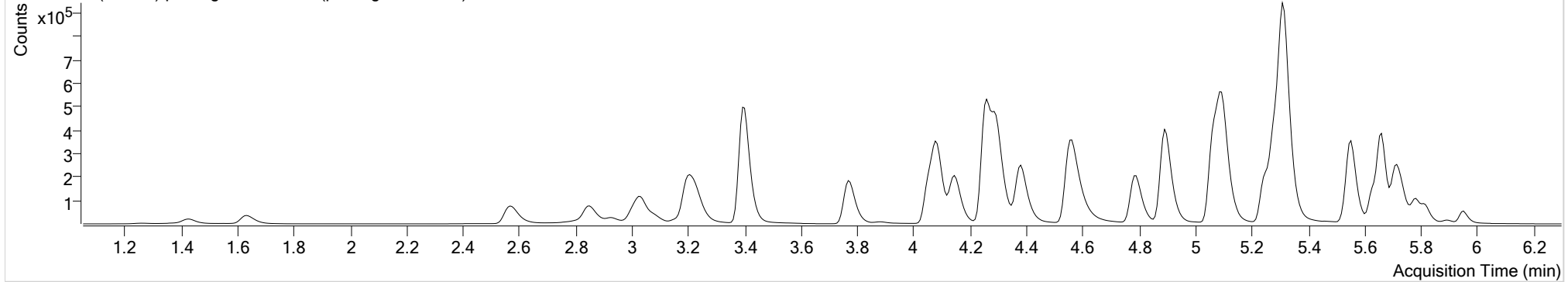
p1 Negative Urine.d

Sample

p1 Negative Urine

Operator**Comment****Sample Chromatogram**

+ TIC MRM (** -> **) p1 Negative Urine.d (p1 Negative Urine)



AM #28 Multi-Drug Quant. Results



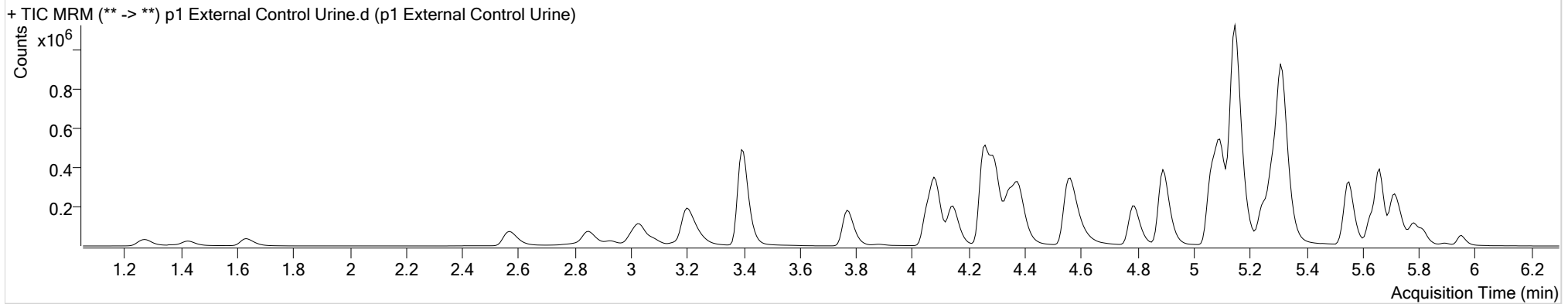
Batch results
Calibration Last Update

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11/12/2019 8:42:49 AM

Instrument Falco
Type Sample
Acq. Method MDQ P1 Combined 092319.m
Sample Position P1-G2
Injection Volume 2
Acq. Date-Time 11/7/2019 2:28:35 AM
Sample Info.

Data File p1 External Control Urine.d
Sample p1 External Control Urine
Operator
Comment

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Clonazepam	5.647	2512	74.65	5.9 Low	13.86	5855	8.7336 ng/ml
Metoprolol	4.346	307682	96465.35	96.2	∞	1371512	124.9790 ng/ml
Morphine	1.273	93778	711.24	21.6	387.91	7244	127.3253 ng/ml
Trazodone	5.146	1775364	1033.50	78.8	2180.49	621334	114.2383 ng/ml

AM #28 Multi-Drug Quant. Results



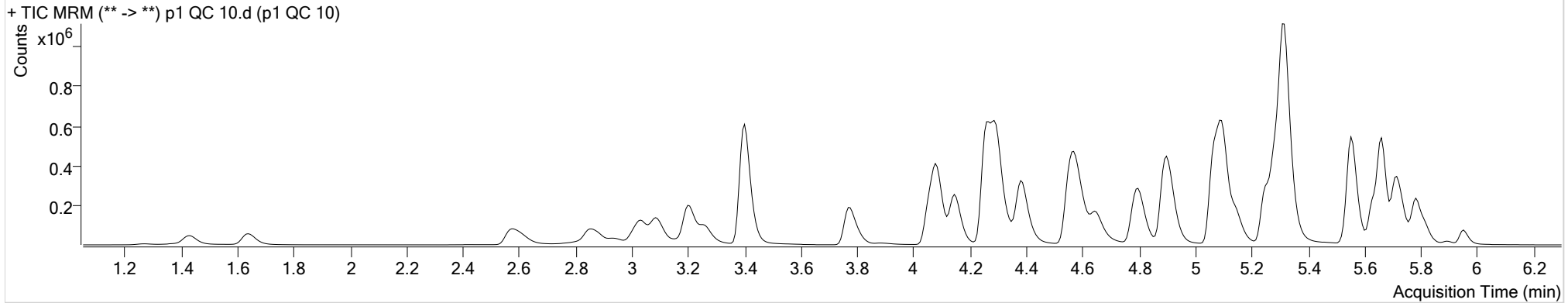
Batch results
Calibration Last Update

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11/12/2019 11:26:01 AM

Instrument Falco
Type QC
Acq. Method MDQ P1 Combined 092319.m
Sample Position P1-A2
Injection Volume 2
Acq. Date-Time 11/7/2019 12:21:29 AM
Sample Info.

Data File p1 QC 10.d
Sample p1 QC 10
Operator
Comment

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.170	1824	3415.61	69.3	1151.47	36678	1.0330 ng/ml
7-aminoclonazepam	4.285	22040	3478.71	81.4	110.88	89346	9.9264 ng/ml
a-hydroxyalprazolam	5.700	1287	52.42	65.8	94.47	6569	9.6292 ng/ml
alpha-PVP	4.391	157858	740.68	50.0	1267.76	696893	9.9538 ng/ml
Alprazolam	5.777	34838	857.81	100.3	353.41	85841	10.4835 ng/ml
Amphetamine	3.095	199685	∞	54.3	4318.19	221422	10.8596 ng/ml
Benzoylcegonine	3.914	3215	1193.78	8.5	∞	13607	9.6031 ng/ml
Buprenorphine	5.781	4871	27.54	16.8	16.46	153590	1.0354 ng/ml
Bupropion	4.813	190474	853.50	59.0	573.92	638431	9.7292 ng/ml
Carisoprodol	5.733	17187	1440.55	53.5	33.53	81461	10.1202 ng/ml
Citalopram	5.249	129260	623.12	41.0	5333.04	583688	9.9722 ng/ml
Clonazepam	5.620	3690	413.58	36.9	∞	6942	10.8654 ng/ml
Cocaine	4.297	129403	9179.64	46.0	4829.54	1048475	9.6713 ng/ml
Codeine	2.630	15762	5422.92	100.5	1301.13	63742	10.0155 ng/ml
Cyclobenzaprine	5.637	109144	∞	9.2	365.95	389526	10.2734 ng/ml
Dextromethorphan	5.299	83490	2604.28	80.4	∞	380787	10.0455 ng/ml
Dextrorphan	4.147	41438	7553.97	211.2	973.54	525246	10.4126 ng/ml
Diazepam	5.961	23807	145.57	88.3	1403.41	115595	10.0771 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.608	40632	1317.90	67.7	871.25	218224	10.3395 ng/ml
Diphenhydramine	5.320	296468	720.44	33.9	2276.67	2205137	10.1719 ng/ml
Doxylamine	4.581	337544	10290.40	96.2	15312.22	1407159	9.6700 ng/ml
EDDP	5.284	115453	3125.80	42.4	∞	622692	10.1585 ng/ml
Fentanyl	5.113	10254	249.87	76.8	621.08	554696	0.9634 ng/ml
Fluoxetine	5.716	117000	469.23	8.9	20406.28	486245	10.3778 ng/ml
Hydrocodone	3.065	36828	699.94	40.4	25.99	238721	10.1860 ng/ml
Hydromorphone	1.648	35430	466.80	75.7	583.43	135546	10.0790 ng/ml
Ketamine	4.074	119370	808.65	37.2	1143.83	534725	10.3732 ng/ml
Lamotrigine	4.308	10511	1884.72	80.9	929.84	534725	10.7303 ng/ml
Lorazepam	5.755	1680	74.18	62.6	8.90 Low-OK _{cs}	6942	9.9558 ng/ml
Meprobamate	4.935	5953	224.62	24.9	101.73	29136	9.7068 ng/ml
Methadone	5.661	179607	17856.33	53.1	37980.63	846839	9.7918 ng/ml
Metoprolol	4.346	29932	∞	95.4	1919.32	1395517	10.5274 ng/ml
Mirtazapine	4.650	241660	4340.32	48.3	2606.89	696893	9.4546 ng/ml
Mitragynine	5.247	23936	3733.19	38.6	201.09	846839	8.6068 ng/ml
Morphine	1.273	7676	1020.04	20.9	678.96	6969	10.3240 ng/ml
Norbuprenorphine	5.017	104	1280.78	105.2 High	68.55	5229	0.2277 ng/ml outside curve range _{cs}
Nordiazepam	5.901	5742	∞	55.6	212.72	17390	10.8386 ng/ml
Norfentanyl	4.108	16829	431.60	37.7	106.72	769569	0.9688 ng/ml
Norhydrocodone	3.106	1208	123.38	35.0	62.80	57326	8.9082 ng/ml
Noroxycodone	2.957	24947	739.12	48.5	187.12	72194	9.9760 ng/ml
O-desmethyl-tramadol	3.408	263821	6384.76	6.1	726.69	1419562	10.1351 ng/ml
Oxazepam	5.765	1827	16.34	70.4	7.17 Low-OK _{cs}	11302	9.5182 ng/ml
Oxycodone	2.881	67031	1128.59	31.6	591.04	286487	10.5272 ng/ml
Oxymorphone	1.430	35427	366.52	49.5	5185.38	127415	9.4784 ng/ml
Phentermine	3.805	50874	1231.35	2.5	99.06	562762	10.6897 ng/ml
Promethazine	5.556	182070	3322.29	30.0	484.82	809251	10.1217 ng/ml
Quetiapine	5.558	154316	9269.91	61.5	∞	207545	10.9075 ng/ml
Sertraline	5.791	62621	422.03	92.1	5041.45	277036	9.7831 ng/ml
Temazepam	5.825	20937	932.25	29.0	169.87	105167	10.6453 ng/ml
Tramadol	4.273	284344	∞	3.2	117.65	1395517	10.7063 ng/ml
Trazodone	5.146	169591	14444.97	79.2	9161.92	648297	10.1829 ng/ml
Venlafaxine	5.067	208235	654.55	37.0	877.75	1135558	10.2677 ng/ml
Zolpidem	4.918	238489	3662.14	31.0	2732.44	1121128	10.1880 ng/ml

AM #28 Multi-Drug Quant. Results



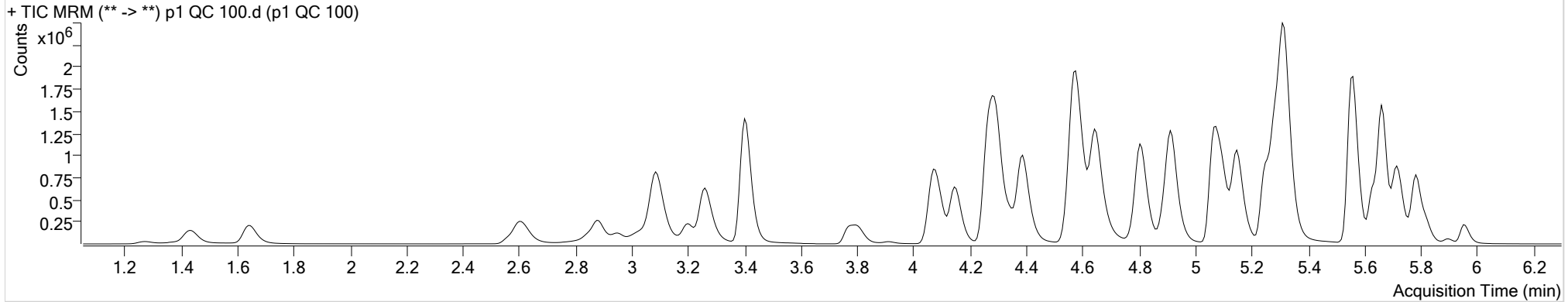
Batch results
Calibration Last Update

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Instrument Falco
Type QC
Acq. Method MDQ P1 Combined 092319.m
Sample Position P1-B2
Injection Volume 2
Acq. Date-Time 11/7/2019 12:42:40 AM
Sample Info.

Data File p1 QC 100.d
Sample p1 QC 100
Operator
Comment

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.170	15933	20205.82	68.4	96028.81	31195	10.2738 ng/ml
7-aminoclonazepam	4.285	172100	16108.92	82.0	28421.20	76964	100.3111 ng/ml
a-hydroxyalprazolam	5.700	11714	267.84	67.2	75.45	6241	97.6315 ng/ml
alpha-PVP	4.391	1475512	59298.43	50.3	56027.18	669108	96.2996 ng/ml
Alprazolam	5.777	299517	258.16	106.3	993.74	76273	98.7247 ng/ml
Amphetamine	3.088	1571685	18231.26	54.9	36862.77	213527	101.3853 ng/ml
Benzoylcegonine	3.914	27852	1315.51	7.8	295.76	13269	97.2989 ng/ml
Buprenorphine	5.781	39255	768.14	16.1	341.04	135059	9.9096 ng/ml
Bupropion	4.807	1822491	3102.04	58.5	73369.80	630962	105.3079 ng/ml
Carisoprodol	5.733	148097	622.82	54.4	945.84	71874	97.9823 ng/ml
Citalopram	5.249	1137402	789.64	41.9	685.64	533674	96.8700 ng/ml
Clonazepam	5.620	34119	3641.89	33.8	∞	6579	107.7227 ng/ml
Cocaine	4.291	1173607	107762.48	45.4	74312.59	957947	95.9411 ng/ml
Codeine	2.623	138325	335.65	100.0	19042.44	59799	108.7214 ng/ml
Cyclobenzaprine	5.637	941390	1095.63	9.4	∞	350581	99.0495 ng/ml
Dextromethorphan	5.292	732856	16075.13	79.1	∞	344003	98.2594 ng/ml
Dextrorphan	4.147	389231	20202.04	213.7	27713.52	510899	101.5256 ng/ml
Diazepam	5.961	207196	1569.84	87.9	1110.96	103322	100.6832 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.601	372388	54095.57	66.3	14678.84	219233	102.8487 ng/ml
Diphenhydramine	5.320	2571902	131041.82	33.6	99308.17	1941475	97.4250 ng/ml
Doxylamine	4.574	3282238	10213.98	96.8	11318.55	1402553	101.9710 ng/ml
EDDP	5.284	1133123	120627.59	42.7	519.70	631349	99.6993 ng/ml
Fentanyl	5.113	101008	17774.37	74.6	245.75	537888	9.7808 ng/ml
Fluoxetine	5.716	1042235	65246.66	9.0	9976.47	455766	98.1013 ng/ml
Hydrocodone	3.058	337061	∞	40.5	∞	233453	101.6117 ng/ml
Hydromorphone	1.648	345137	2061.18	73.3	1452.71	138112	100.3753 ng/ml
Ketamine	4.074	1092310	51710.29	38.2	961.03	521062	103.4259 ng/ml
Lamotrigine	4.315	84570	4964.16	81.3	23104.18	521062	99.5876 ng/ml
Lorazepam	5.755	15498	514.92	53.6	∞	6579	95.1961 ng/ml
Meprobamate	4.935	52582	2845.08	25.2	432.07	25770	96.6713 ng/ml
Methadone	5.661	1694316	2378.41	52.9	1999.46	810142	95.7253 ng/ml
Metoprolol	4.346	252121	182387.14	98.1	15359.81	1357215	103.2188 ng/ml
Mirtazapine	4.650	2266497	110912.84	48.5	11385.27	669108	95.2363 ng/ml
Mitragynine	5.247	216939	30526.62	39.7	6864.21	810142	81.8055 ng/ml
Morphine	1.273	67750	580.78	21.3	∞	6524	102.0298 ng/ml
Norbuprenorphine	5.024	1055	149.23	85.0	29.80	5061	8.8420 ng/ml
Nordiazepam	5.901	52023	∞	56.8	2233.55	16558	103.8021 ng/ml
Norfentanyl	4.108	163086	22726.76	37.3	3288.04	736931	9.4004 ng/ml
Norhydrocodone	3.106	14606	527.70	36.2	1489.98	58678	98.4169 ng/ml
Noroxycodone	2.950	225131	1811.89	48.5	393.17	67642	101.1462 ng/ml
O-desmethyl-tramadol	3.408	2504042	∞	6.2	6388.48	1376796	101.5002 ng/ml
Oxazepam	5.758	15511	134.84	73.4	543.28	10620	96.8025 ng/ml
Oxycodone	2.881	638964	4458.45	31.6	1190.24	285214	105.0283 ng/ml
Oxymorphone	1.430	337205	517.26	49.4	1634.41	122358	98.2580 ng/ml
Phentermine	3.805	428514	4420.03	2.4	476.50	539589	106.0996 ng/ml
Promethazine	5.556	1663581	115809.63	30.2	24189.70	748312	98.7263 ng/ml
Quetiapine	5.558	1329134	∞	60.1	67618.49	196079	109.1517 ng/ml
Sertraline	5.791	503736	18420.41	91.9	1322.30	229139	95.3573 ng/ml
Temazepam	5.825	191006	606.70	29.7	349.99	100504	101.2068 ng/ml
Tramadol	4.273	2475337	131408.74	3.5	∞	1357215	106.8089 ng/ml
Trazodone	5.146	1569672	142291.33	78.7	101559.89	608130	103.1664 ng/ml
Venlafaxine	5.067	1963326	∞	36.6	1799.57	1106163	97.1977 ng/ml
Zolpidem	4.912	2282656	53203.13	30.5	73135.26	1103189	105.8183 ng/ml

AM #28 Multi-Drug Quant. Results



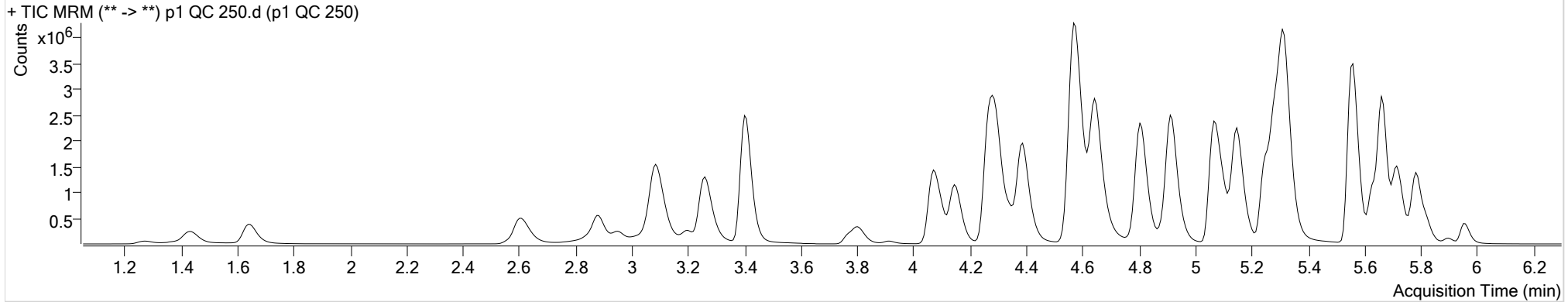
Batch results
Calibration Last Update

D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1 Meth Removed.batch.bin
11/12/2019 8:42:49 AM

Instrument Falco
Type QC
Acq. Method MDQ P1 Combined 092319.m
Sample Position P1-C2
Injection Volume 2
Acq. Date-Time 11/7/2019 1:03:50 AM
Sample Info.

Data File p1 QC 250.d
Sample p1 QC 250
Operator
Comment

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.170	38434	11363.10	70.0	19781.44	29523	26.1301 ng/ml
7-aminoclonazepam	4.285	293185	26253.00	82.0	19341.13	57333	231.0479 ng/ml
a-hydroxyalprazolam	5.700	26251	314.18	67.9	∞	5158	265.8162 ng/ml
alpha-PVP	4.391	3367712	119329.62	50.3	9059.98	605942	242.6020 ng/ml
Alprazolam	5.777	664633	736.80	100.9	480.54	63556	262.3837 ng/ml
Amphetamine	3.088	3122889	37665.17	54.2	22826.81	194218	223.5865 ng/ml
Benzoylcegonine	3.914	68833	6091.95	7.8	236.58	12849	250.6667 ng/ml
Buprenorphine	5.781	80815	∞	15.7	445.06	111428	24.8043 ng/ml
Bupropion	4.807	4201973	290965.50	57.8	78916.42	577219	267.3530 ng/ml
Carisoprodol	5.733	290852	21516.75	53.7	5200.50	54276	254.6665 ng/ml
Citalopram	5.249	2411797	9592.61	41.2	17331.09	437748	250.5843 ng/ml
Clonazepam	5.620	74724	2023.30	32.9	546.58	6297	246.7357 ng/ml
Cocaine	4.291	2485293	95440.58	44.9	208745.73	792875	245.4582 ng/ml
Codeine	2.623	285335	307.19	100.1	12040.00	51386	263.5037 ng/ml
Cyclobenzaprine	5.637	1964354	1280.62	9.5	72007.56	287791	251.8823 ng/ml
Dextromethorphan	5.292	1519048	31289.51	79.0	54987.42	281022	249.4299 ng/ml
Dextrorphan	4.147	878572	32240.93	211.3	1369.53	454358	257.8539 ng/ml
Diazepam	5.961	446498	715.23	89.0	3010.14	89817	250.0244 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.601	802959	28269.52	67.1	32463.76	206053	237.3098 ng/ml
Diphenhydramine	5.320	5519445	520693.74	33.3	54012.62	1619185	250.1979 ng/ml
Doxylamine	4.568	7772821	16466.17	95.9	418420.97	1303632	261.1553 ng/ml
EDDP	5.284	2585128	426.41	42.5	34667.36	572445	251.0992 ng/ml
Fentanyl	5.113	233256	13492.89	76.8	673905.67	488091	24.8901 ng/ml
Fluoxetine	5.716	2203314	215142.81	8.9	23855.17	373421	253.0232 ng/ml
Hydrocodone	3.058	778031	368.67	40.6	∞	223773	245.7534 ng/ml
Hydromorphone	1.648	698827	∞	76.2	1081.58	112991	249.1150 ng/ml
Ketamine	4.074	2449507	134864.55	38.2	7714.84	473831	256.1032 ng/ml
Lamotrigine	4.315	160064	5731.41	80.4	14343.71	473831	208.9145 ng/ml
Lorazepam	5.755	36086	∞	57.4	427.80	6297	231.3029 ng/ml
Meprobamate	4.935	115570	18992.77	24.9	433.95	22416	244.2282 ng/ml
Methadone	5.661	3755299	220859.66	52.3	3149.14	695407	247.0240 ng/ml
Metoprolol	4.346	512676	81518.46	96.7	8288.71	1224799	234.5522 ng/ml
Mirtazapine	4.643	5139299	946249.06	48.3	93194.46	605942	238.9546 ng/ml
Mitragynine	5.247	546141	22093.30	38.7	32781.61	695407	239.9830 ng/ml
Morphine	1.273	153150	13347.48	20.6	3557.22	5736	263.1925 ng/ml
Norbuprenorphine	5.024	2645	299.79	76.6	621.46	4717	24.9351 ng/ml
Nordiazepam	5.901	116871	1061.08	57.5	1826.05	15203	254.0824 ng/ml
Norfentanyl	4.108	374405	38640.55	37.5	418.80	638532	24.8337 ng/ml
Norhydrocodone	3.106	33201	486.66	37.3	267.36	51333	254.7176 ng/ml
Noroxycodone	2.950	491627	579.63	47.3	1584.55	60632	247.2537 ng/ml
O-desmethyl-tramadol	3.401	5701339	139011.68	6.1	967.66	1225591	260.0230 ng/ml
Oxazepam	5.758	37547	2036.17	70.7	145.42	10102	248.4193 ng/ml
Oxycodone	2.881	1496139	5658.00	31.6	13828.58	267113	263.3302 ng/ml
Oxymorphone	1.430	666050	632.76	47.3	2178.78	97167	245.1163 ng/ml
Phentermine	3.805	881417	2170.64	2.3	1140.13	500285	237.2918 ng/ml
Promethazine	5.556	3682924	1576.29	30.2	∞	655558	249.2687 ng/ml
Quetiapine	5.558	2697406	∞	60.8	4002.79	174545	250.3781 ng/ml
Sertraline	5.791	985126	46817.00	92.3	∞	173992	245.6288 ng/ml
Temazepam	5.825	435695	1950.27	29.3	518.67	89418	259.4046 ng/ml
Tramadol	4.267	5372573	2035.09	3.4	2393.34	1224799	258.8248 ng/ml
Trazodone	5.146	3547123	∞	79.0	290985.10	564128	251.7547 ng/ml
Venlafaxine	5.067	4506706	3177.43	35.9	1886.15	983286	250.5952 ng/ml
Zolpidem	4.912	5149699	347653.11	30.2	94446.06	1008708	262.2178 ng/ml

AM #28 Multi-Drug Quant. Results



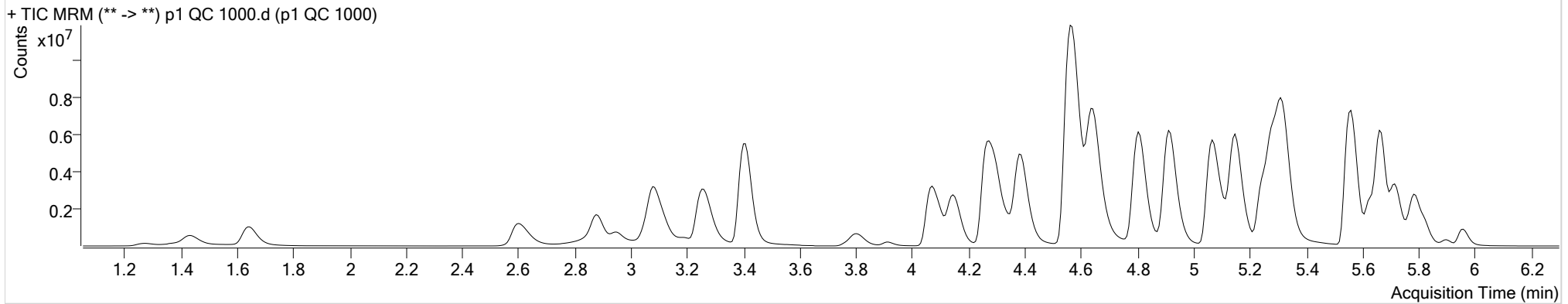
Batch results
Calibration Last Update

D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1 Meth Removed.batch.bin
11/12/2019 8:42:49 AM

Instrument Falco
Type QC
Acq. Method MDQ P1 Combined 092319.m
Sample Position P1-D2
Injection Volume 2
Acq. Date-Time 11/7/2019 1:25:01 AM
Sample Info.

Data File p1 QC 1000.d
Sample p1 QC 1000
Operator
Comment

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.170	120109	47317.53	69.8	990661.84	22182	108.5691 ng/ml
7-aminoclonazepam	4.285	387423	16272.56	81.3	11491.49	26056	674.2549 ng/ml outside curve range
a-hydroxyalprazolam	5.700	88961	388.49	67.7	244.50	4179	1113.8601 ng/ml
alpha-PVP	4.391	10149326	112093.54	50.1	96337.97	446151	992.7790 ng/ml
Alprazolam	5.777	1794329	1067.44	103.9	∞	44554	1009.5924 ng/ml
Amphetamine	3.088	6730128	72108.67	53.3	130472.41	167002	563.0573 ng/ml outside curve range
Benzoylcegonine	3.914	283354	1728.82	7.8	4378.42	13165	1011.7126 ng/ml
Buprenorphine	5.781	169478	2811.19	16.1	1585.04	57958	100.1628 ng/ml
Bupropion	4.807	12437942	565429.30	58.7	225713.91	471984	971.1727 ng/ml
Carisoprodol	5.733	646720	23722.61	53.2	2118.78	27508	1116.9667 ng/ml
Citalopram	5.249	5327681	∞	40.3	∞	244814	990.0863 ng/ml
Clonazepam	5.614	187608	6388.91	33.4	701.96	4759	820.1804 ng/ml
Cocaine	4.291	6081772	571630.64	44.8	355118.38	485268	981.3969 ng/ml
Codeine	2.623	769721	9881.36	99.1	24624.21	36766	998.4748 ng/ml
Cyclobenzaprine	5.631	4539237	1172.07	9.4	341.85	165823	1010.3789 ng/ml
Dextromethorphan	5.292	3145154	88490.55	78.9	122025.45	146044	993.9664 ng/ml
Dextrorphan	4.147	2576912	59613.06	214.1	270685.51	332488	1033.8566 ng/ml
Diazepam	5.961	1198673	∞	87.9	∞	59791	1009.1932 ng/ml

AM #28 Multi-Drug Quant. Results

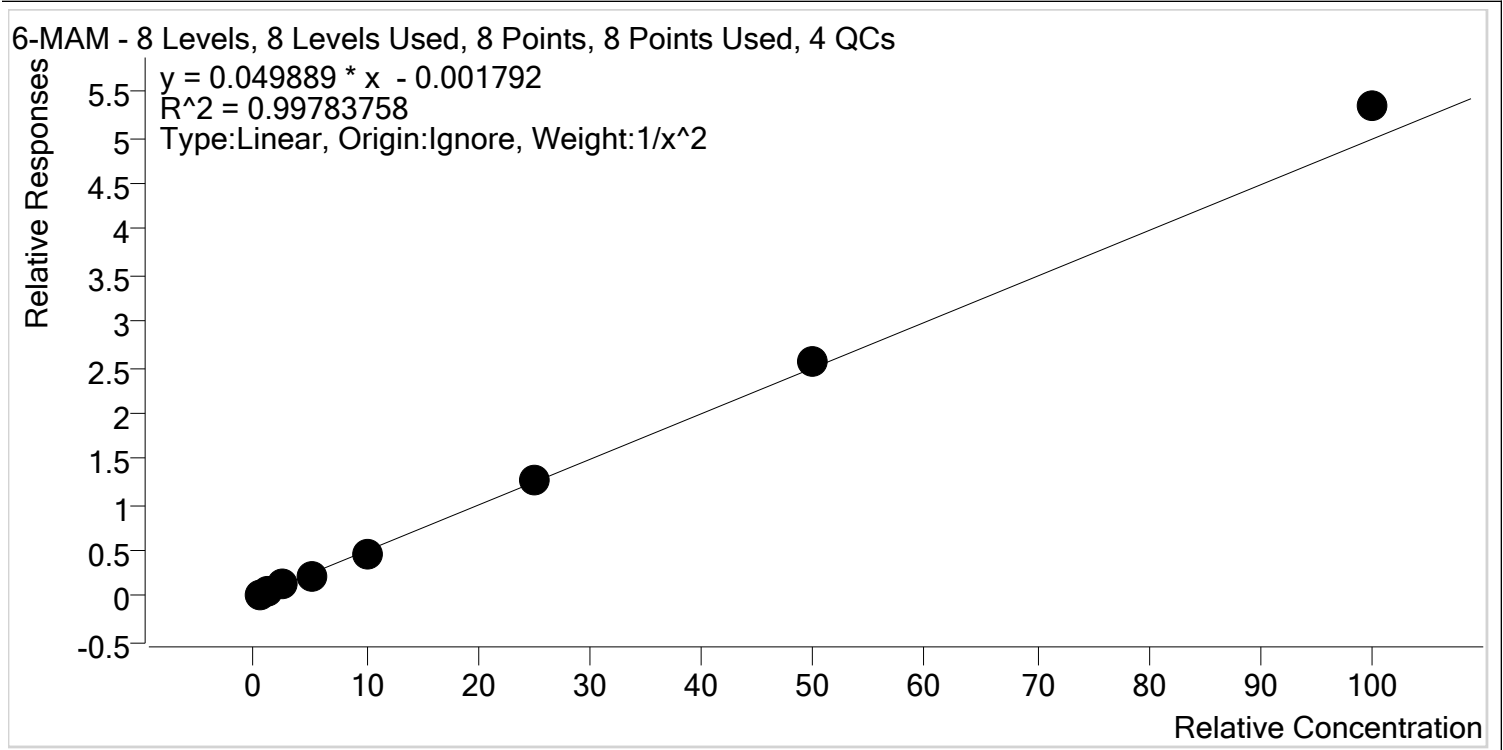


Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.	
Dihydrocodeine	2.595	2230507	651.16	67.0	49855.99	187376	727.0775 ng/ml	outside curve range ^{CS}
Diphenhydramine	5.320	12806700	519326.82	33.4	50351.75	914973	1026.3562 ng/ml	
Doxylamine	4.561	24407935	477743.40	95.8	413071.39	1104813	970.0066 ng/ml	
EDDP	5.284	8598984	223686.20	42.0	253180.30	459553	1040.9134 ng/ml	
Fentanyl	5.113	793524	7820806.57	77.9	∞	378387	109.2222 ng/ml	
Fluoxetine	5.716	5504989	92315.33	8.8	12000.22	227955	1035.4062 ng/ml	
Hydrocodone	3.058	2519032	1243.95	41.1	∞	200581	889.6353 ng/ml	
Hydromorphone	1.648	2161725	1413.86	76.2	1068.74	91066	957.4716 ng/ml	
Ketamine	4.074	7053257	340932.34	37.7	36483.67	377580	927.2965 ng/ml	
Lamotrigine	4.315	261704	23150.43	79.6	25321.03	377580	430.2382 ng/ml	outside curve range ^{CS}
Lorazepam	5.755	156406	188016.02	56.9	2577.80	4759	1325.6722 ng/ml	outside curve range ^{CS}
Meprobamate	4.935	283269	9719.19	24.7	5229.47	12060	1112.5235 ng/ml	
Methadone	5.668	10070602	∞	52.0	66089.20	468886	982.1981 ng/ml	
Metoprolol	4.346	1135774	728826.03	97.6	5783.54	874421	731.1404 ng/ml	outside curve range ^{CS}
Mirtazapine	4.643	14905620	2397274.56	48.8	485350.75	446151	942.2286 ng/ml	
Mitragynine	5.241	1581715	76775.79	39.7	28089.84	468886	1030.9079 ng/ml	
Morphine	1.273	446455	41150.18	20.5	7957.53	4529	973.2405 ng/ml	
Norbuprenorphine	5.024	9303	406.34	79.8	1763.84	4487	94.0404 ng/ml	
Nordiazepam	5.901	370721	2623.20	57.3	3018.94	12789	958.3138 ng/ml	
Norfentanyl	4.108	1136233	136073.32	37.7	21792.89	423333	113.5174 ng/ml	
Norhydrocodone	3.106	111746	831.99	39.6	674.55	34135	1286.6620 ng/ml	outside curve range ^{CS}
Noroxycodone	2.950	1489487	24542.62	47.2	5633.77	46956	968.9971 ng/ml	
O-desmethyl-tramadol	3.408	16412115	409552.92	6.1	792.99	901946	1017.8689 ng/ml	
Oxazepam	5.758	170288	∞	71.7	∞	11999	952.2719 ng/ml	
Oxycodone	2.874	5246538	5495.66	31.6	4184.89	250220	987.1219 ng/ml	
Oxymorphone	1.430	1960708	∞	47.7	∞	75175	934.0169 ng/ml	
Phentermine	3.805	2218967	1979.16	2.3	1307.67	436527	687.5873 ng/ml	outside curve range ^{CS}
Promethazine	5.556	10349114	175960.36	29.6	95182.85	456922	1004.5167 ng/ml	
Quetiapine	5.565	5817802	458955.76	58.8	234073.39	132473	713.7284 ng/ml	outside curve range ^{CS}
Sertraline	5.791	2042405	61749.11	90.8	65862.75	90690	977.0831 ng/ml	
Temazepam	5.825	1472561	25937.84	29.8	6390.59	74548	1051.4721 ng/ml	
Tramadol	4.267	13298092	∞	3.4	∞	874421	900.7451 ng/ml	
Trazodone	5.146	10366002	314118.05	79.1	665350.87	416495	997.4048 ng/ml	
Venlafaxine	5.067	13325171	10896.10	35.8	∞	723828	1005.7812 ng/ml	
Zolpidem	4.912	15186689	∞	30.3	307343.25	866827	901.7356 ng/ml	



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1
 Meth Removed.batch.bin
Last Cal. Update 11/12/2019 8:42 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	102.1
p1 Cal 2- 10ng	2	✓	1.0	1.0	98.0
p1 Cal 3 -25ng	3	✓	2.5	2.4	96.9
p1 Cal 4-50ng	4	✓	5.0	4.8	95.9
p1 Cal 5-100ng	5	✓	10.0	9.6	95.7
p1 Cal 6-250ng	6	✓	25.0	25.4	101.5
p1 Cal 7-500ng	7	✓	50.0	51.3	102.7
p1 Cal 8-1000ng	8	✓	100.0	107.2	107.2



CS

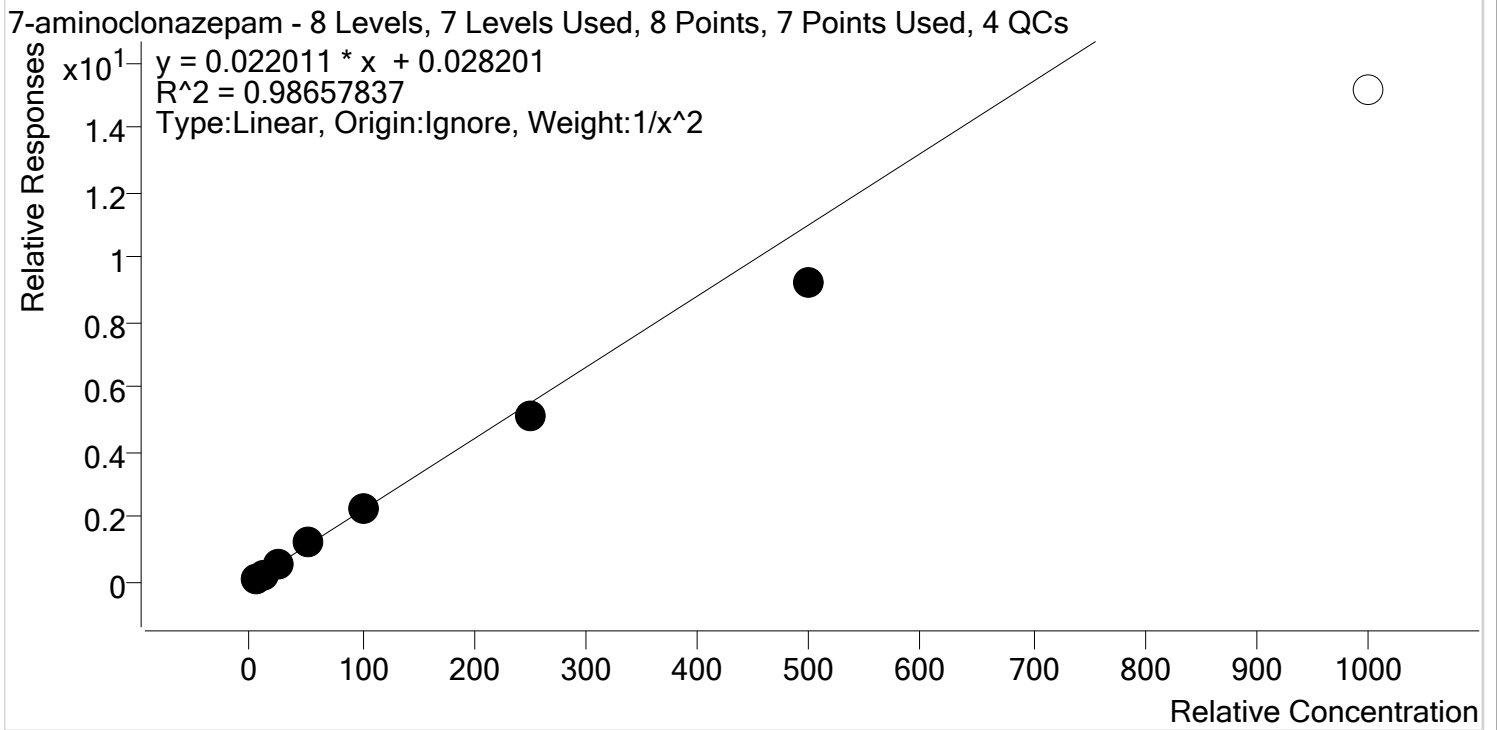
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1
Meth Removed.batch.bin

Last Cal. Update 11/12/2019 8:42 AM

Analyst Name ISP\datastor

Analyte 7-aminoclonazepam **Internal Standard** 7-Aminoclonazepam-D4

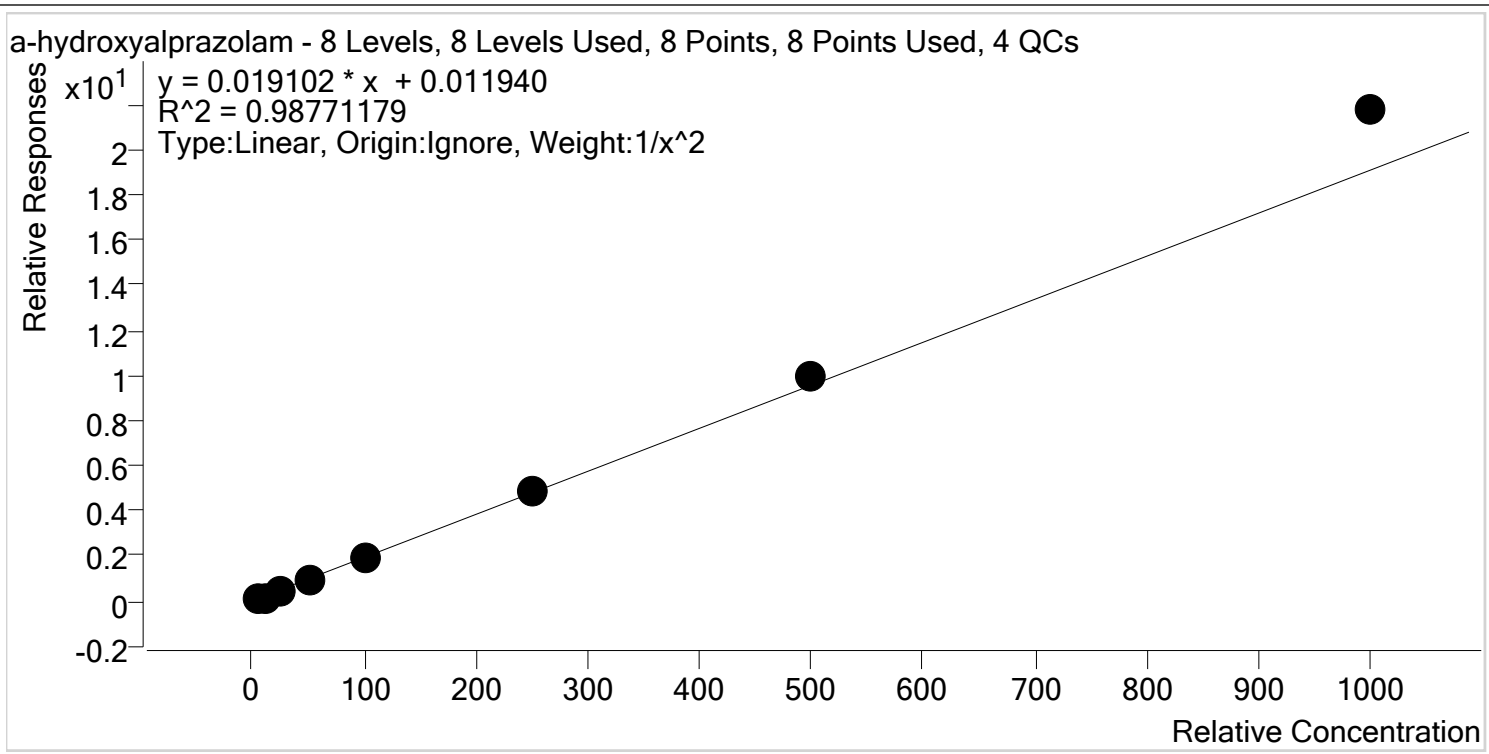


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	95.0
p1 Cal 2- 10ng	2	✓	10.0	10.5	104.6
p1 Cal 3 -25ng	3	✓	25.0	27.0	108.1
p1 Cal 4-50ng	4	✓	50.0	56.2	112.4
p1 Cal 5-100ng	5	✓	100.0	102.6	102.6
p1 Cal 6-250ng	6	✓	250.0	234.2	93.7
p1 Cal 7-500ng	7	✓	500.0	417.9	83.6
p1 Cal 8-1000ng	8	x	1000.0	687.9	68.8



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1
 Meth Removed.batch.bin
Last Cal. Update 11/12/2019 8:42 AM
Analyst Name ISP\datastor
Analyte a-hydroxyalprazolam **Internal Standard** a-hydroxyalprazolam-D5

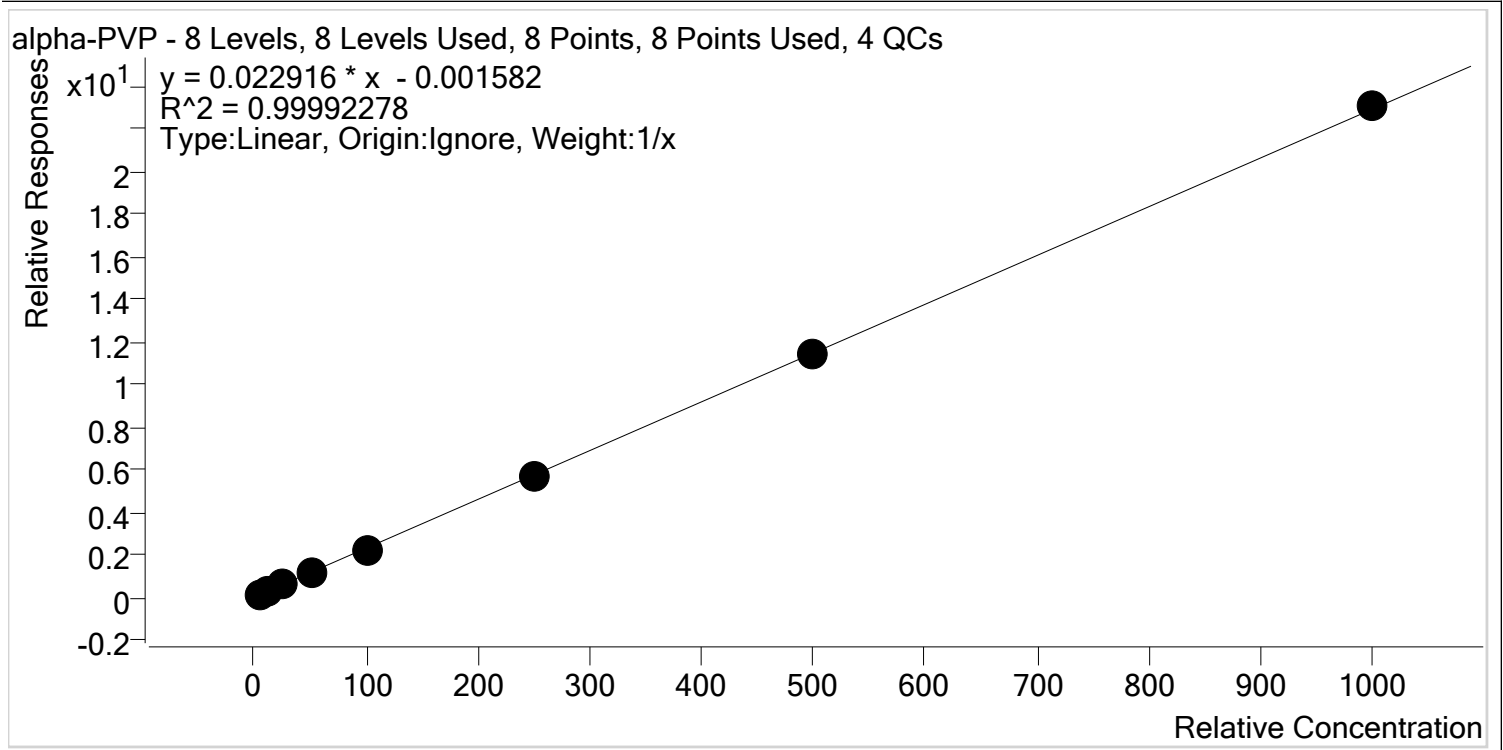


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.5	109.9
p1 Cal 2- 10ng	2	✓	10.0	8.3	83.2
p1 Cal 3 -25ng	3	✓	25.0	23.6	94.3
p1 Cal 4-50ng	4	✓	50.0	48.5	97.1
p1 Cal 5-100ng	5	✓	100.0	95.6	95.6
p1 Cal 6-250ng	6	✓	250.0	254.7	101.9
p1 Cal 7-500ng	7	✓	500.0	520.0	104.0
p1 Cal 8-1000ng	8	✓	1000.0	1140.1	114.0



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1
 Meth Removed.batch.bin
Last Cal. Update 11/12/2019 8:42 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	5.2	103.1
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.0
p1 Cal 3 -25ng	3	✓	25.0	24.7	98.7
p1 Cal 4-50ng	4	✓	50.0	50.1	100.2
p1 Cal 5-100ng	5	✓	100.0	97.6	97.6
p1 Cal 6-250ng	6	✓	250.0	247.4	98.9
p1 Cal 7-500ng	7	✓	500.0	498.8	99.8
p1 Cal 8-1000ng	8	✓	1000.0	1006.2	100.6



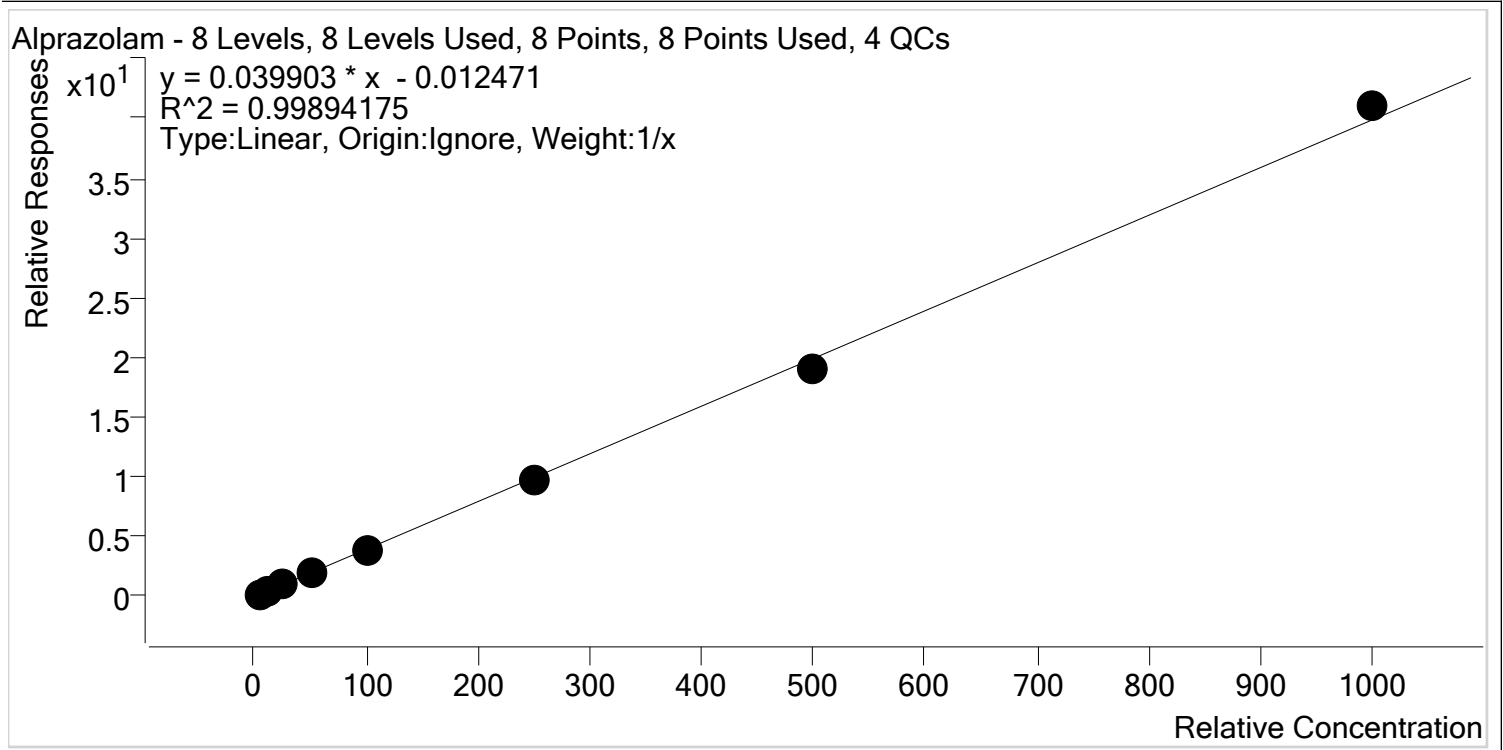
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1
Meth Removed.batch.bin

Last Cal. Update 11/12/2019 8:42 AM

Analyst Name ISP\datastor

Analyte Alprazolam **Internal Standard** Alprazolam-D5

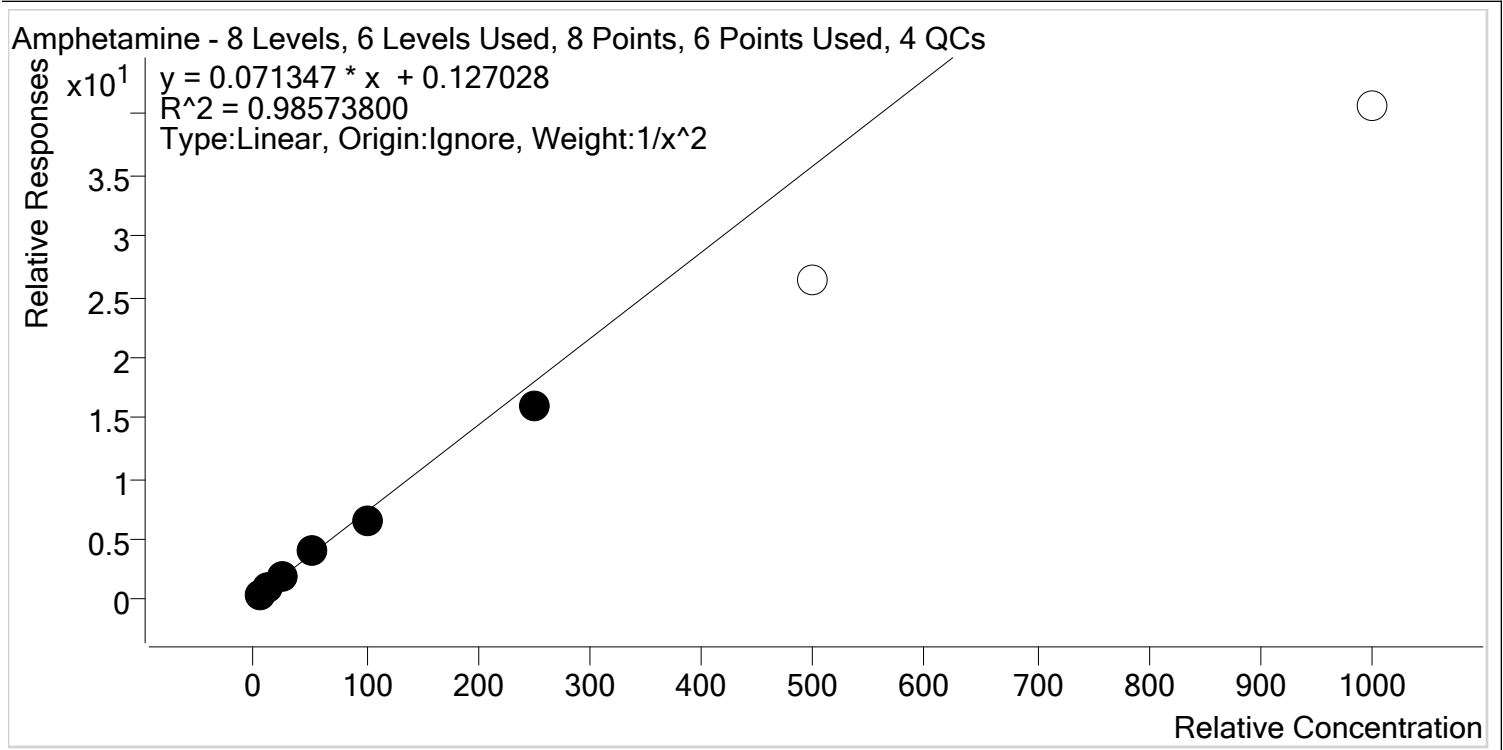


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.4	109.0
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.9
p1 Cal 3 -25ng	3	✓	25.0	24.8	99.1
p1 Cal 4-50ng	4	✓	50.0	49.1	98.3
p1 Cal 5-100ng	5	✓	100.0	96.8	96.8
p1 Cal 6-250ng	6	✓	250.0	245.3	98.1
p1 Cal 7-500ng	7	✓	500.0	480.0	96.0
p1 Cal 8-1000ng	8	✓	1000.0	1028.7	102.9



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1 Meth Removed.batch.bin
Last Cal. Update 11/12/2019 8:42 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	4.7	94.2
p1 Cal 2- 10ng	2	✓	10.0	10.7	107.1
p1 Cal 3 -25ng	3	✓	25.0	27.4	109.7
p1 Cal 4-50ng	4	✓	50.0	54.7	109.5
p1 Cal 5-100ng	5	✓	100.0	90.9	90.9
p1 Cal 6-250ng	6	✓	250.0	221.6	88.6
p1 Cal 7-500ng	7	✗	500.0	366.2	73.2
p1 Cal 8-1000ng	8	✗	1000.0	568.6	56.9

CS



AM #28 Multi-Drug Quant. Calibration Curve Report

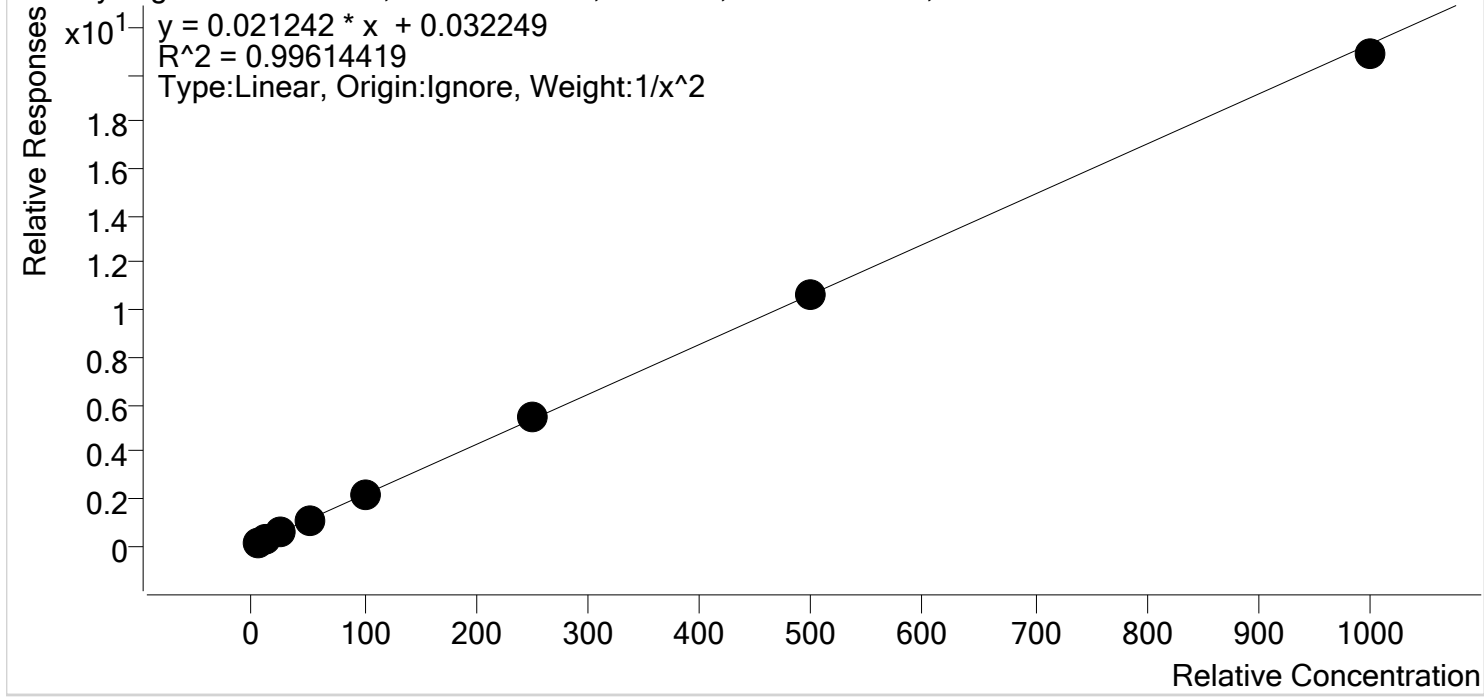
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Meth Removed.batch.bin

Last Cal. Update 11/12/2019 8:42 AM

Analyst Name ISP\datastor

Analyte Benzoyllecgonine **Internal Standard** Benzoyllecgonine-d8

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

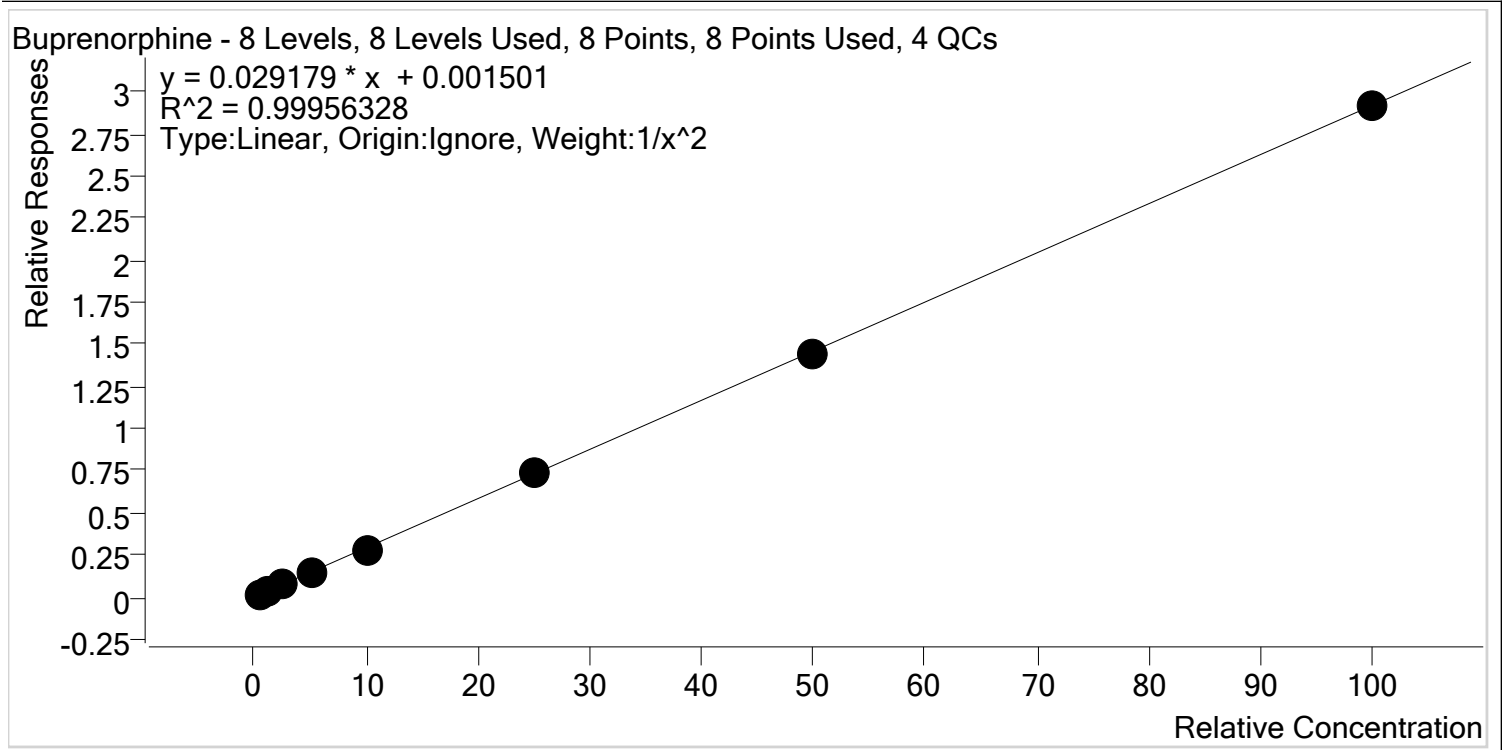


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	94.8
p1 Cal 2- 10ng	2	✓	10.0	11.2	112.4
p1 Cal 3 -25ng	3	✓	25.0	24.0	95.8
p1 Cal 4-50ng	4	✓	50.0	49.5	98.9
p1 Cal 5-100ng	5	✓	100.0	100.0	100.0
p1 Cal 6-250ng	6	✓	250.0	251.8	100.7
p1 Cal 7-500ng	7	✓	500.0	497.1	99.4
p1 Cal 8-1000ng	8	✓	1000.0	979.5	98.0



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1 Meth Removed.batch.bin
Last Cal. Update 11/12/2019 8:42 AM
Analyst Name ISP\datastor
Analyte Buprenorphine **Internal Standard** Buprenorphine-D4

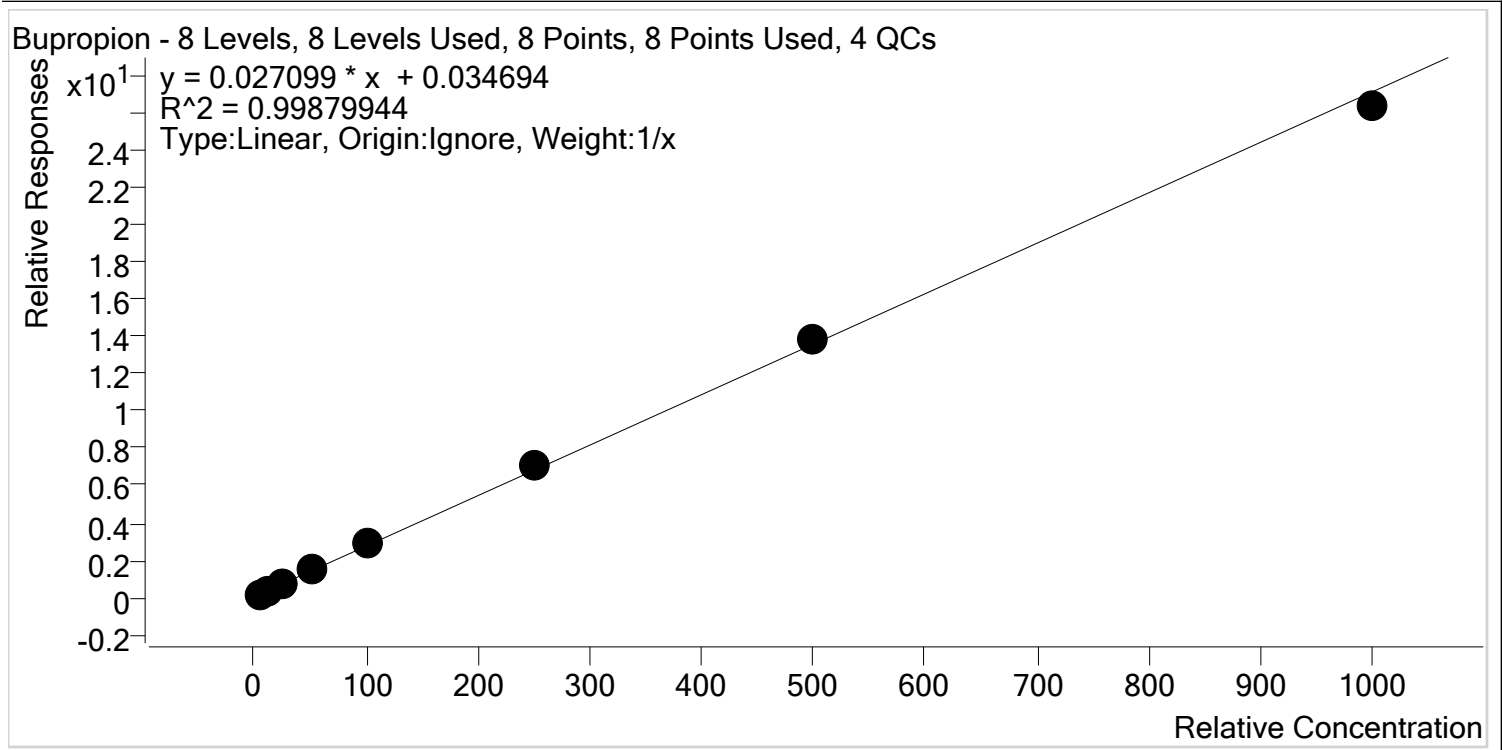


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	100.5
p1 Cal 2- 10ng	2	✓	1.0	1.0	98.6
p1 Cal 3 -25ng	3	✓	2.5	2.5	100.1
p1 Cal 4-50ng	4	✓	5.0	5.2	103.2
p1 Cal 5-100ng	5	✓	10.0	9.7	97.4
p1 Cal 6-250ng	6	✓	25.0	25.4	101.6
p1 Cal 7-500ng	7	✓	50.0	49.4	98.8
p1 Cal 8-1000ng	8	✓	100.0	99.8	99.8



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1
 Meth Removed.batch.bin
Last Cal. Update 11/12/2019 8:42 AM
Analyst Name ISP\datastor
Analyte Bupropion **Internal Standard** Bupropion-D9

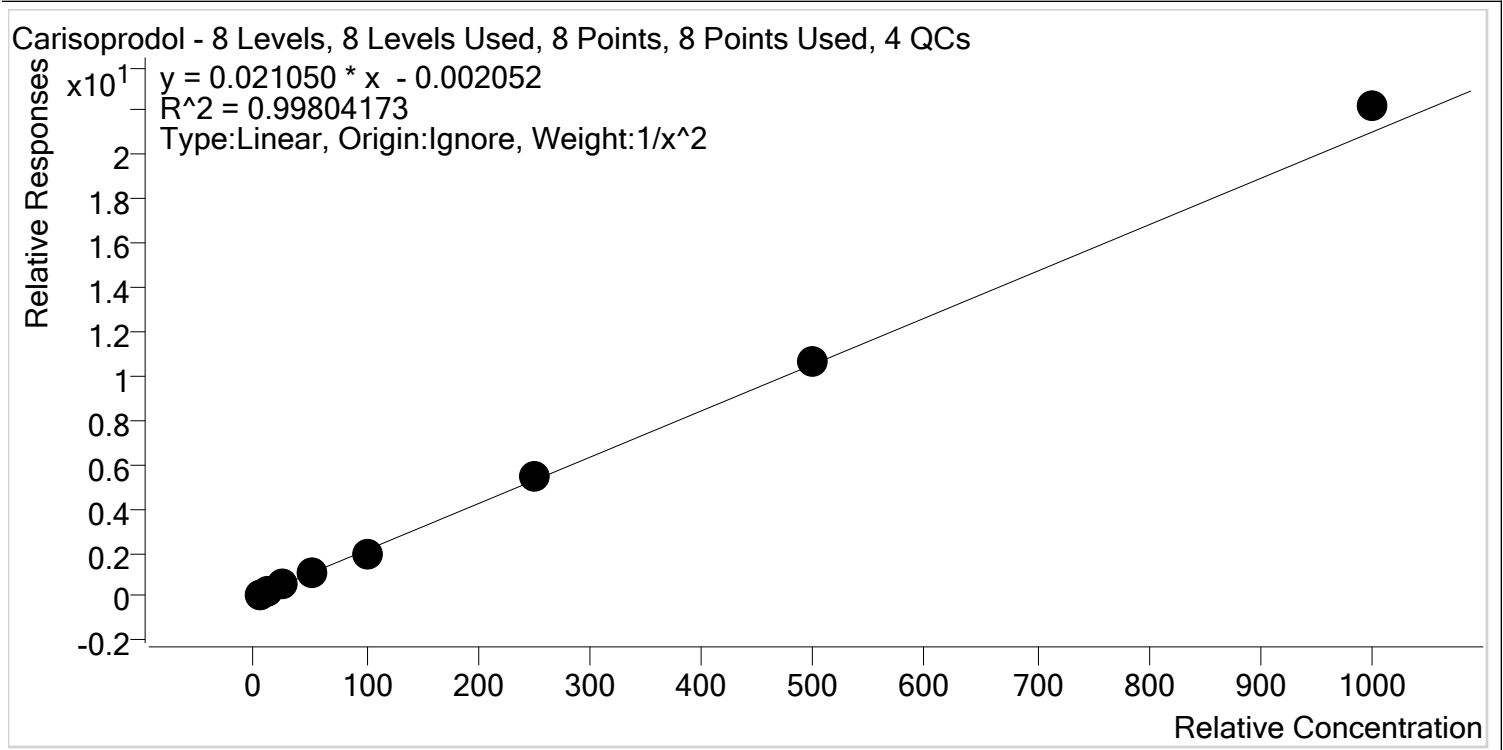


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.3	86.2
p1 Cal 2- 10ng	2	✓	10.0	9.7	96.5
p1 Cal 3 -25ng	3	✓	25.0	25.6	102.3
p1 Cal 4-50ng	4	✓	50.0	53.2	106.4
p1 Cal 5-100ng	5	✓	100.0	104.8	104.8
p1 Cal 6-250ng	6	✓	250.0	262.4	104.9
p1 Cal 7-500ng	7	✓	500.0	508.5	101.7
p1 Cal 8-1000ng	8	✓	1000.0	971.5	97.2



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1
 Meth Removed.batch.bin
Last Cal. Update 11/12/2019 8:42 AM
Analyst Name ISP\datastor
Analyte Carisoprodol **Internal Standard** Carisoprodol-D7



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.6
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.1
p1 Cal 3 -25ng	3	✓	25.0	24.1	96.2
p1 Cal 4-50ng	4	✓	50.0	48.8	97.7
p1 Cal 5-100ng	5	✓	100.0	93.9	93.9
p1 Cal 6-250ng	6	✓	250.0	258.3	103.3
p1 Cal 7-500ng	7	✓	500.0	508.2	101.6
p1 Cal 8-1000ng	8	✓	1000.0	1055.5	105.5

cg



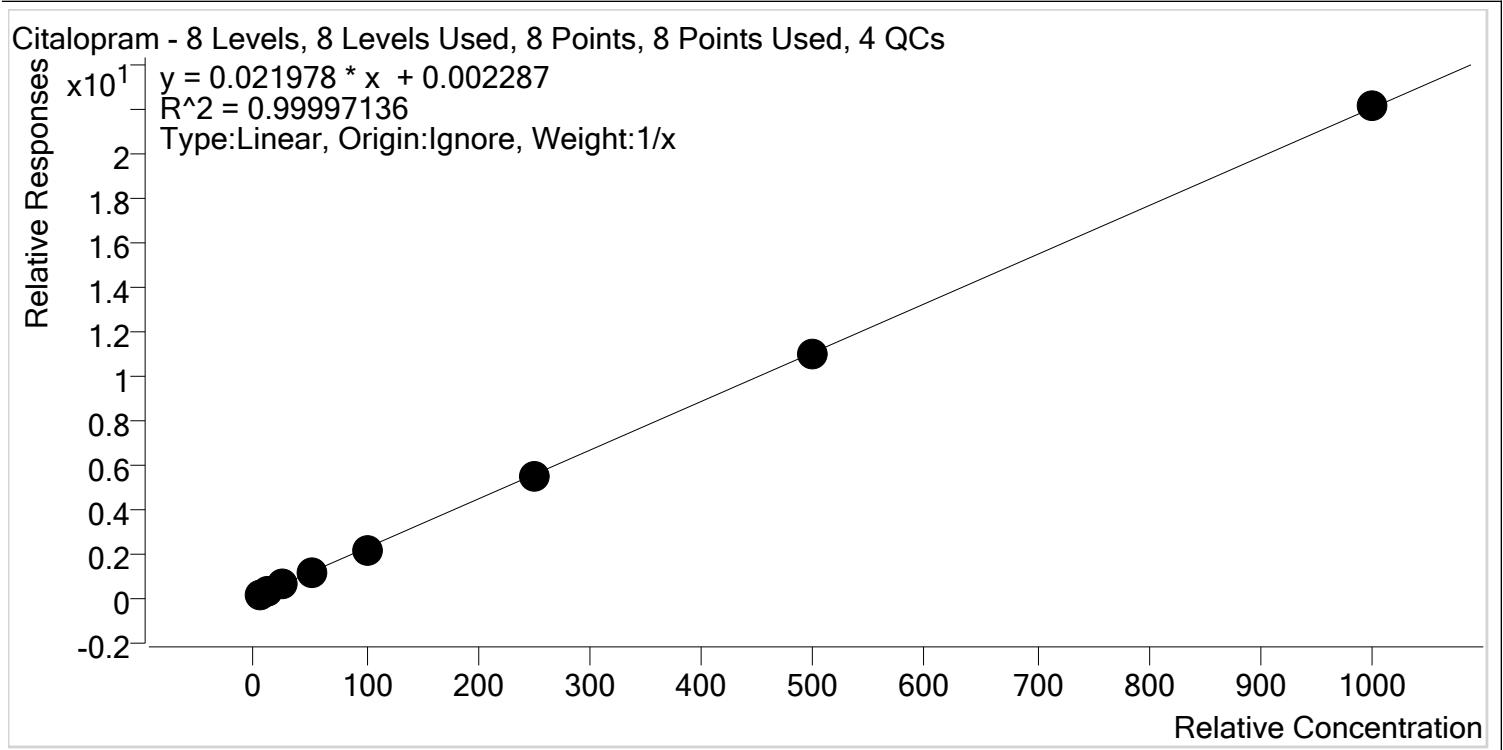
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1
Meth Removed.batch.bin

Last Cal. Update 11/12/2019 8:42 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	5.1	101.8
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.2
p1 Cal 3 -25ng	3	✓	25.0	24.9	99.7
p1 Cal 4-50ng	4	✓	50.0	50.1	100.1
p1 Cal 5-100ng	5	✓	100.0	98.3	98.3
p1 Cal 6-250ng	6	✓	250.0	249.5	99.8
p1 Cal 7-500ng	7	✓	500.0	498.5	99.7
p1 Cal 8-1000ng	8	✓	1000.0	1003.6	100.4



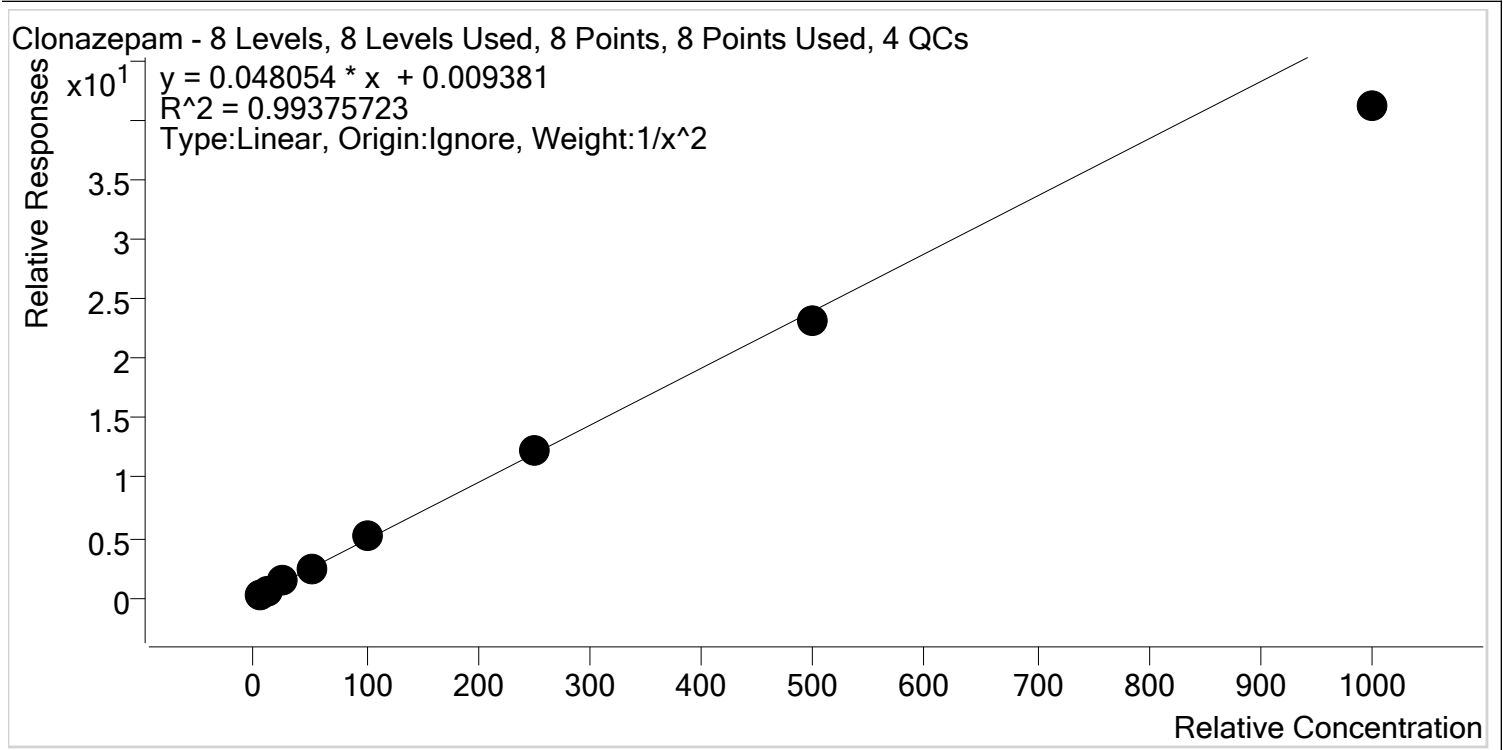
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1
Meth Removed.batch.bin

Last Cal. Update 11/12/2019 8:42 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	4.9	97.8
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.6
p1 Cal 3 -25ng	3	✓	25.0	26.6	106.4
p1 Cal 4-50ng	4	✓	50.0	51.3	102.5
p1 Cal 5-100ng	5	✓	100.0	107.9	107.9
p1 Cal 6-250ng	6	✓	250.0	255.2	102.1
p1 Cal 7-500ng	7	✓	500.0	484.9	97.0
p1 Cal 8-1000ng	8	✓	1000.0	857.2	85.7

2



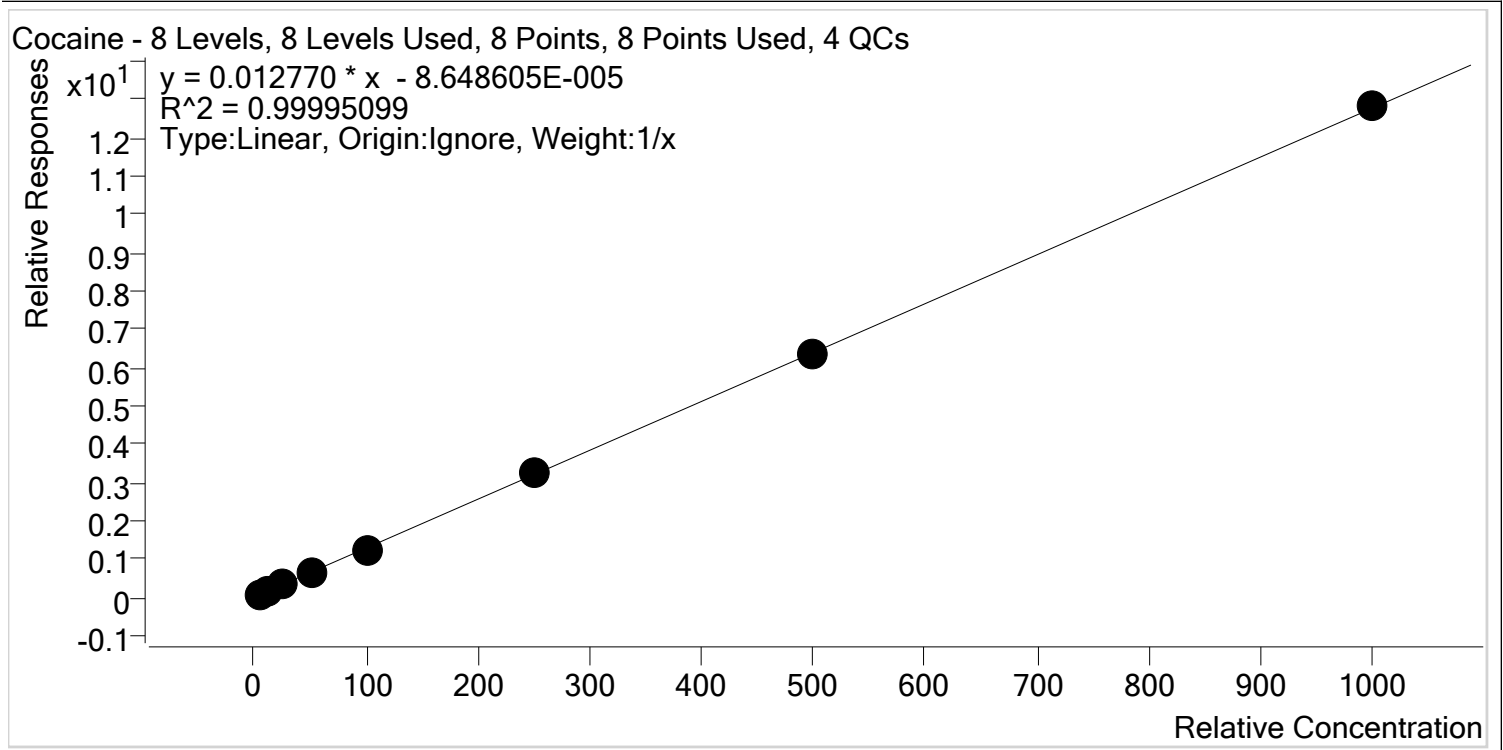
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1
Meth Removed.batch.bin

Last Cal. Update 11/12/2019 8:42 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	103.1
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.3
p1 Cal 3 -25ng	3	✓	25.0	24.8	99.4
p1 Cal 4-50ng	4	✓	50.0	49.7	99.4
p1 Cal 5-100ng	5	✓	100.0	97.7	97.7
p1 Cal 6-250ng	6	✓	250.0	250.5	100.2
p1 Cal 7-500ng	7	✓	500.0	498.1	99.6
p1 Cal 8-1000ng	8	✓	1000.0	1004.0	100.4



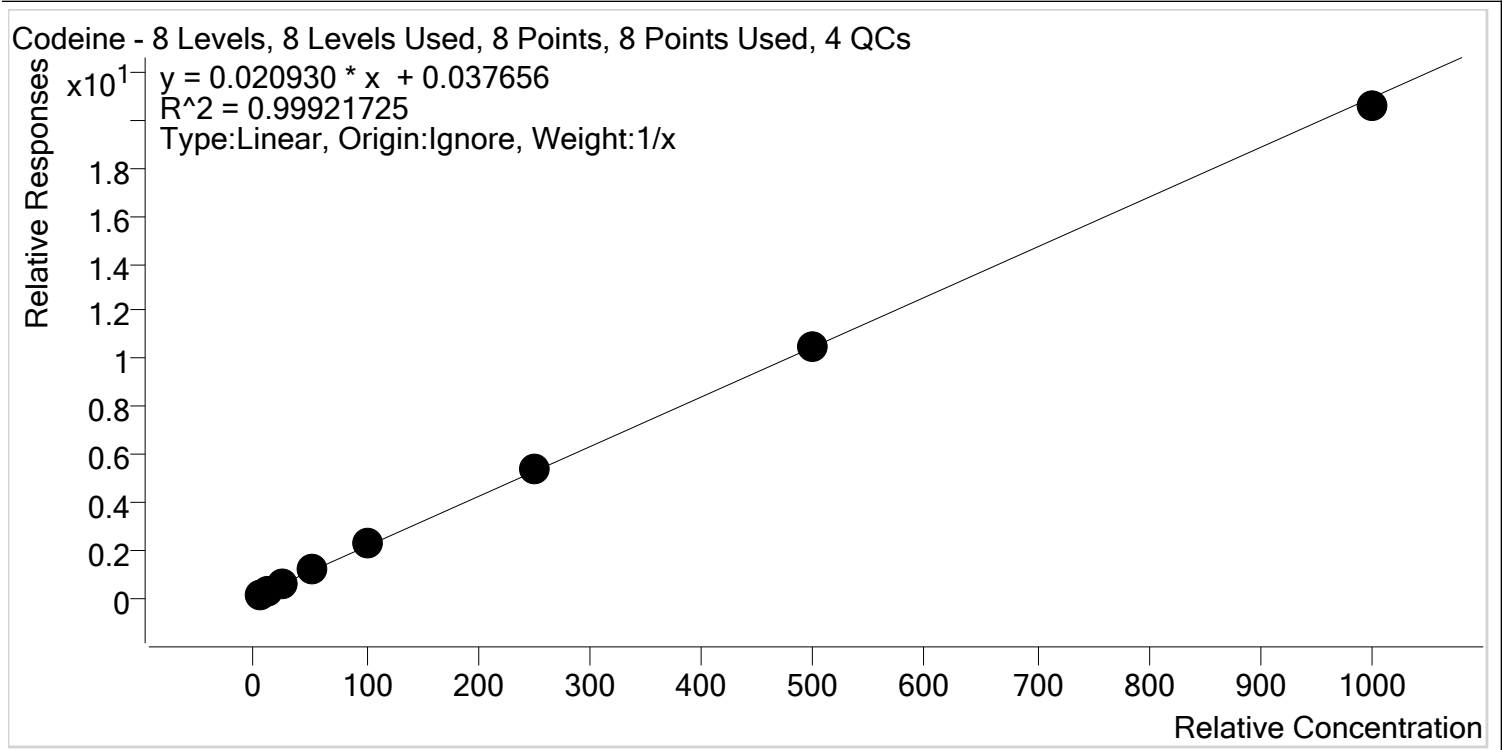
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1
Meth Removed.batch.bin

Last Cal. Update 11/12/2019 8:42 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	4.1	81.5
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.2
p1 Cal 3 -25ng	3	✓	25.0	26.1	104.3
p1 Cal 4-50ng	4	✓	50.0	53.9	107.7
p1 Cal 5-100ng	5	✓	100.0	106.3	106.3
p1 Cal 6-250ng	6	✓	250.0	256.5	102.6
p1 Cal 7-500ng	7	✓	500.0	500.7	100.1
p1 Cal 8-1000ng	8	✓	1000.0	982.6	98.3



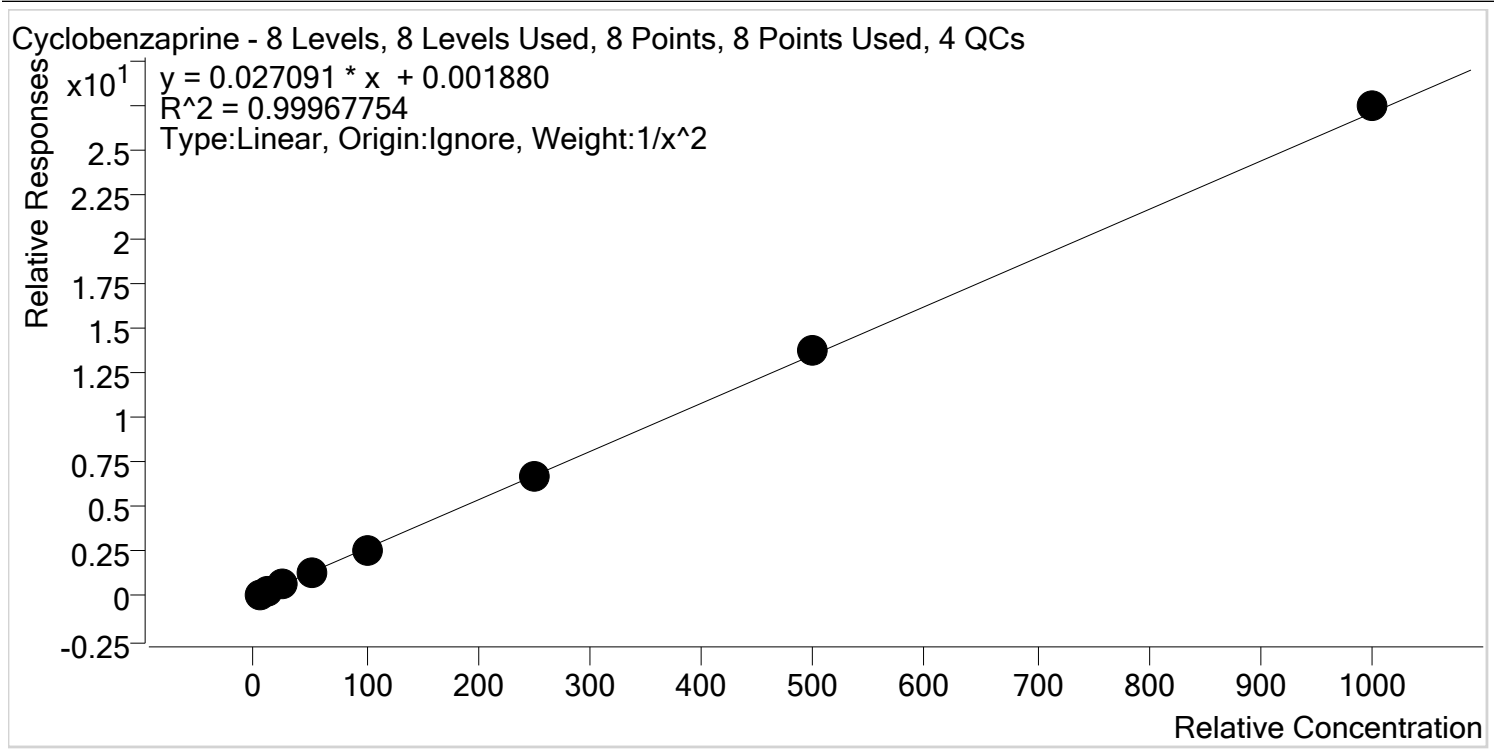
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1
Meth Removed.batch.bin

Last Cal. Update 11/12/2019 8:42 AM

Analyst Name ISP\datastor

Analyte Cyclobenzaprine **Internal Standard** Cyclobenzaprine-D3

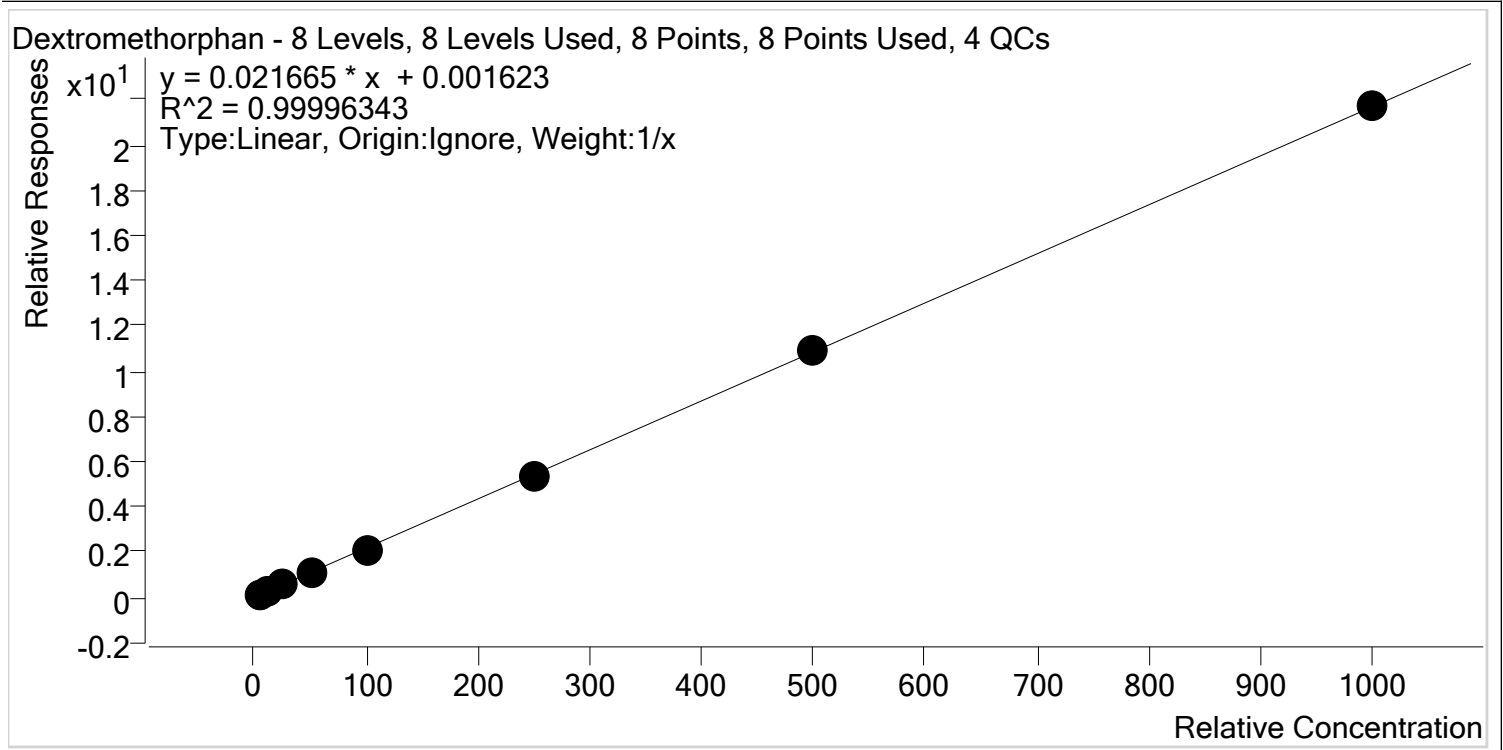


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.1
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.0
p1 Cal 3 -25ng	3	✓	25.0	24.3	97.3
p1 Cal 4-50ng	4	✓	50.0	50.0	100.1
p1 Cal 5-100ng	5	✓	100.0	98.0	98.0
p1 Cal 6-250ng	6	✓	250.0	252.2	100.9
p1 Cal 7-500ng	7	✓	500.0	506.6	101.3
p1 Cal 8-1000ng	8	✓	1000.0	1013.5	101.4



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1
 Meth Removed.batch.bin
Last Cal. Update 11/12/2019 8:42 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	103.4
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.8
p1 Cal 3 -25ng	3	✓	25.0	24.6	98.6
p1 Cal 4-50ng	4	✓	50.0	50.1	100.2
p1 Cal 5-100ng	5	✓	100.0	97.9	97.9
p1 Cal 6-250ng	6	✓	250.0	249.1	99.6
p1 Cal 7-500ng	7	✓	500.0	501.8	100.4
p1 Cal 8-1000ng	8	✓	1000.0	1001.3	100.1

5



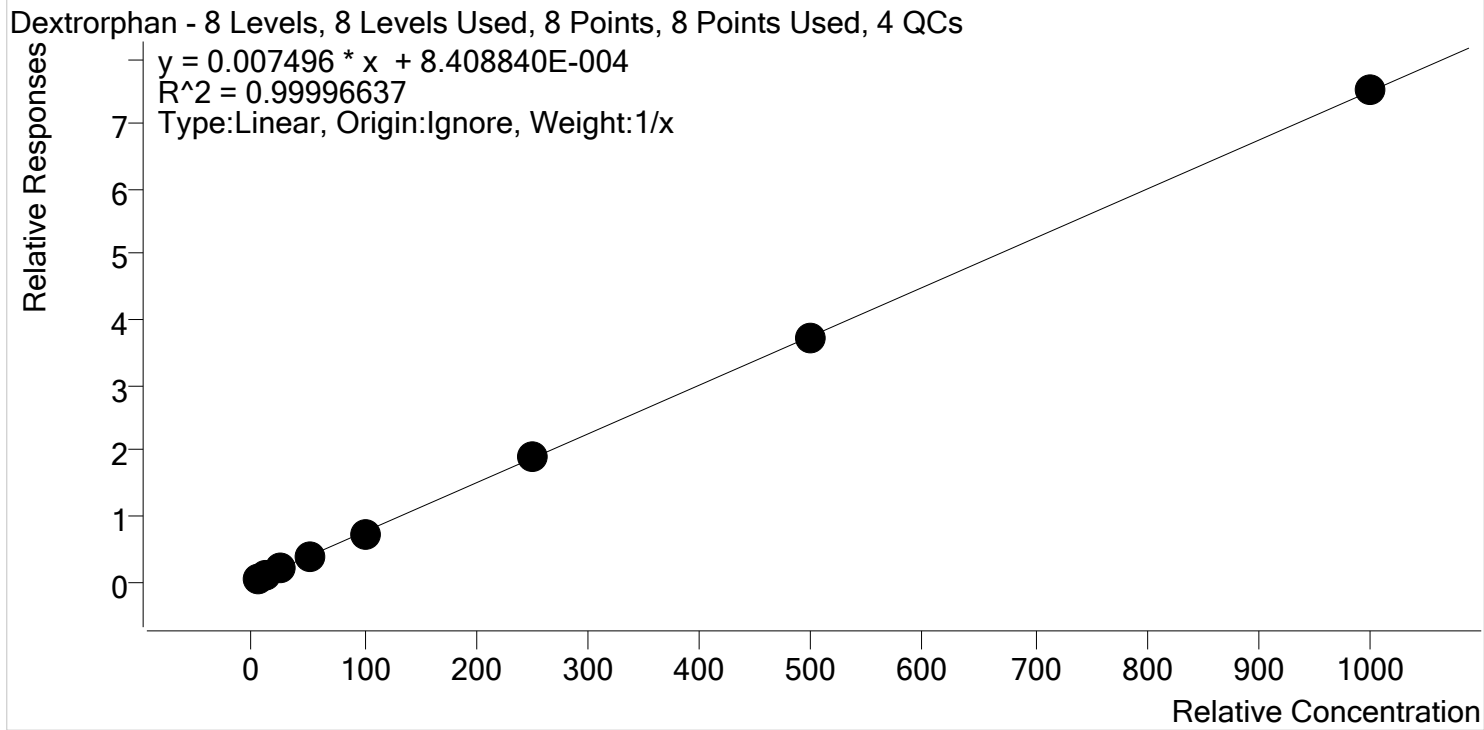
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1
Meth Removed.batch.bin

Last Cal. Update 11/12/2019 8:42 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	101.8
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.0
p1 Cal 3 -25ng	3	✓	25.0	24.7	99.0
p1 Cal 4-50ng	4	✓	50.0	50.9	101.9
p1 Cal 5-100ng	5	✓	100.0	98.4	98.4
p1 Cal 6-250ng	6	✓	250.0	250.2	100.1
p1 Cal 7-500ng	7	✓	500.0	498.5	99.7
p1 Cal 8-1000ng	8	✓	1000.0	1002.2	100.2



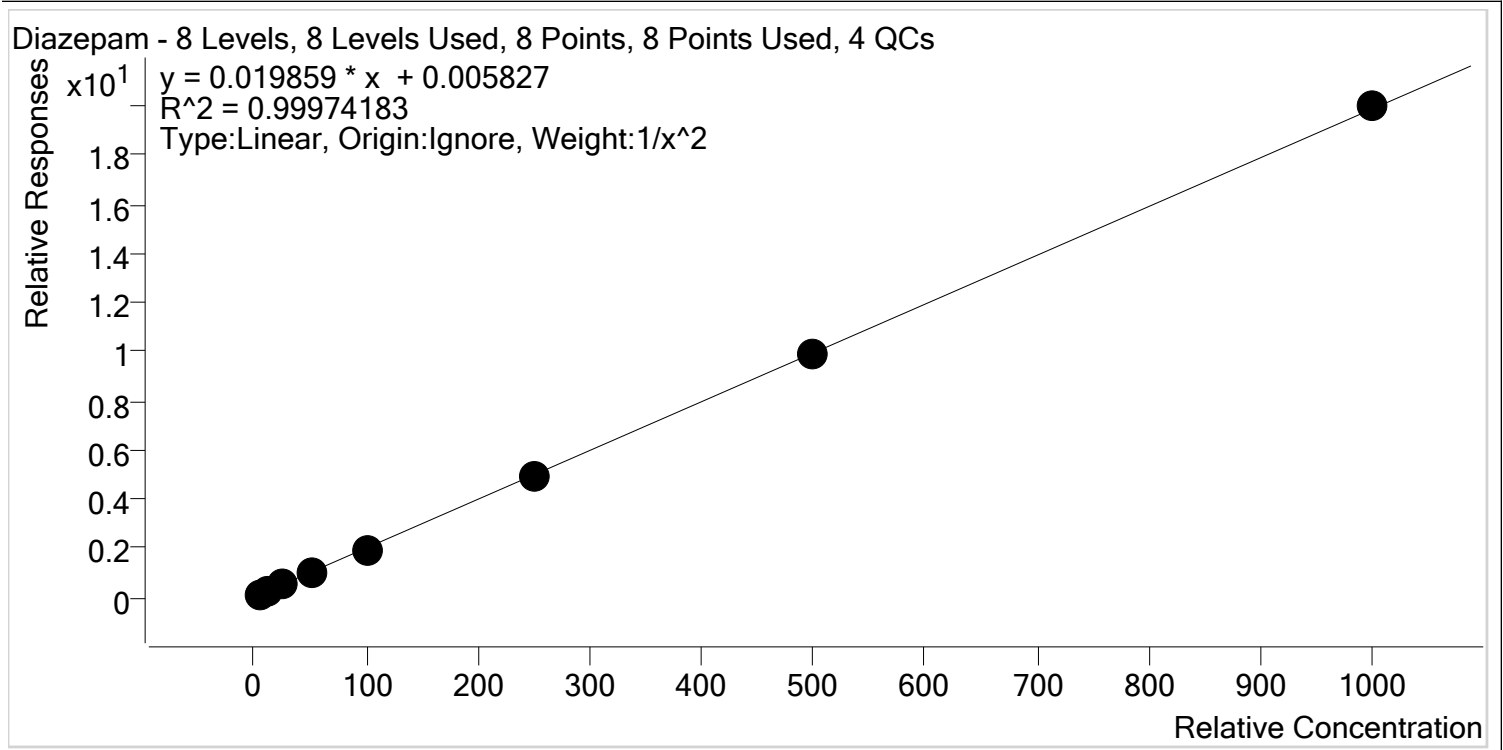
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1
Meth Removed.batch.bin

Last Cal. Update 11/12/2019 8:42 AM

Analyst Name ISP\datastor

Analyte Diazepam **Internal Standard** Diazepam-D5

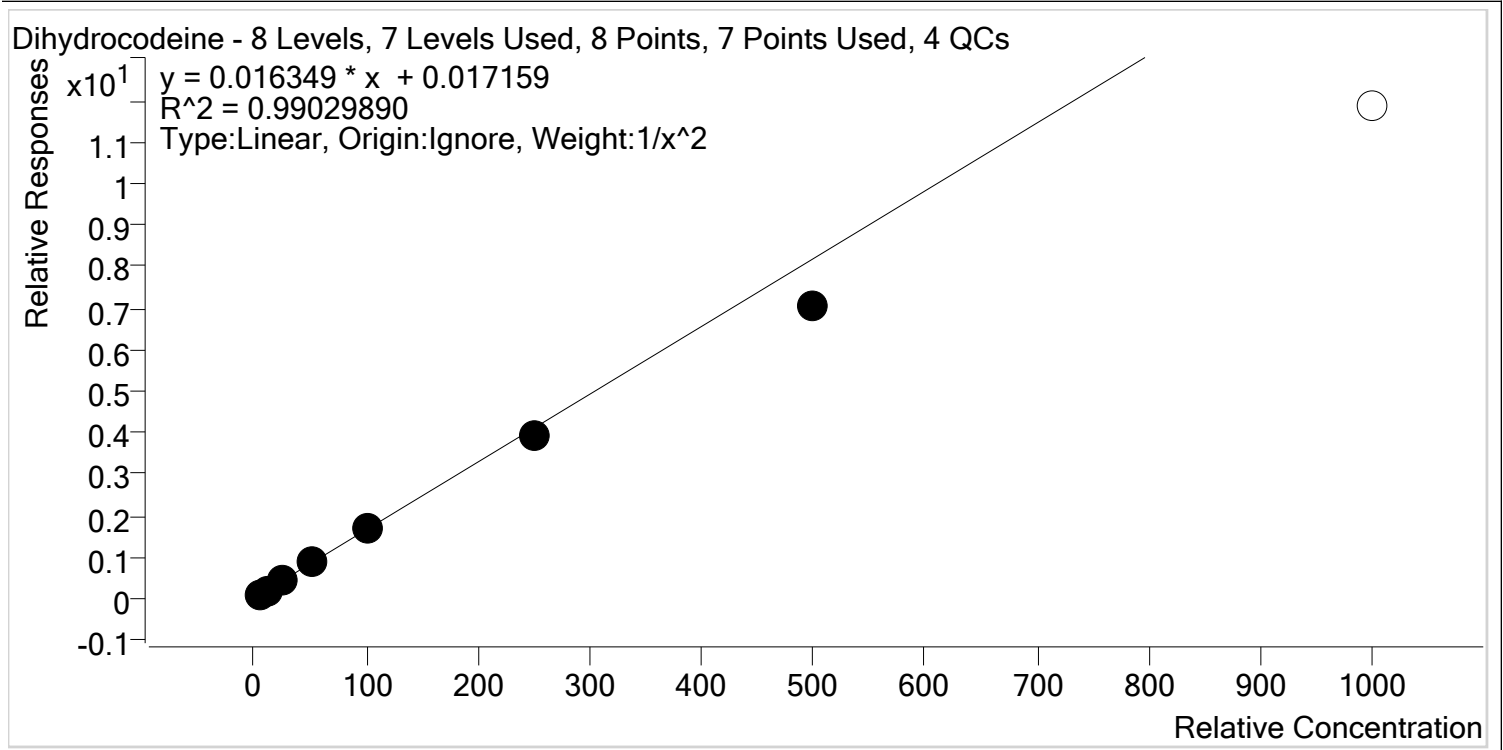


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.1
p1 Cal 2- 10ng	2	✓	10.0	9.9	98.8
p1 Cal 3 -25ng	3	✓	25.0	25.5	102.0
p1 Cal 4-50ng	4	✓	50.0	50.9	101.8
p1 Cal 5-100ng	5	✓	100.0	98.0	98.0
p1 Cal 6-250ng	6	✓	250.0	248.3	99.3
p1 Cal 7-500ng	7	✓	500.0	496.6	99.3
p1 Cal 8-1000ng	8	✓	1000.0	1005.7	100.6



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1 Meth Removed.batch.bin
Last Cal. Update 11/12/2019 8:42 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	4.7	94.9
p1 Cal 2- 10ng	2	✓	10.0	10.6	105.6
p1 Cal 3 -25ng	3	✓	25.0	26.9	107.7
p1 Cal 4-50ng	4	✓	50.0	54.3	108.5
p1 Cal 5-100ng	5	✓	100.0	102.5	102.5
p1 Cal 6-250ng	6	✓	250.0	237.5	95.0
p1 Cal 7-500ng	7	✓	500.0	429.2	85.8
p1 Cal 8-1000ng	8	x	1000.0	724.8	72.5

CS



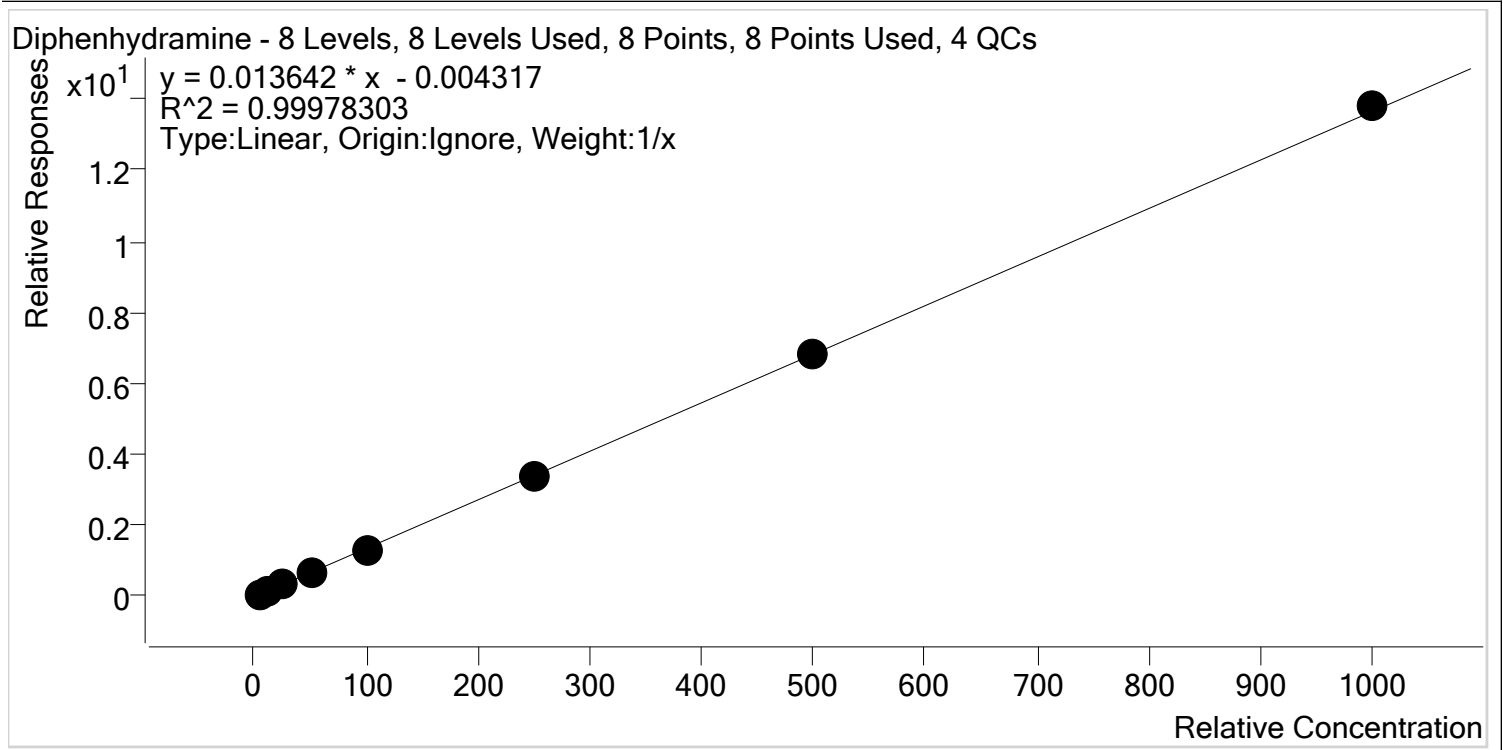
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1
Meth Removed.batch.bin

Last Cal. Update 11/12/2019 8:42 AM

Analyst Name ISP\datastor

Analyte Diphenhydramine **Internal Standard** Diphenhydramine-D3

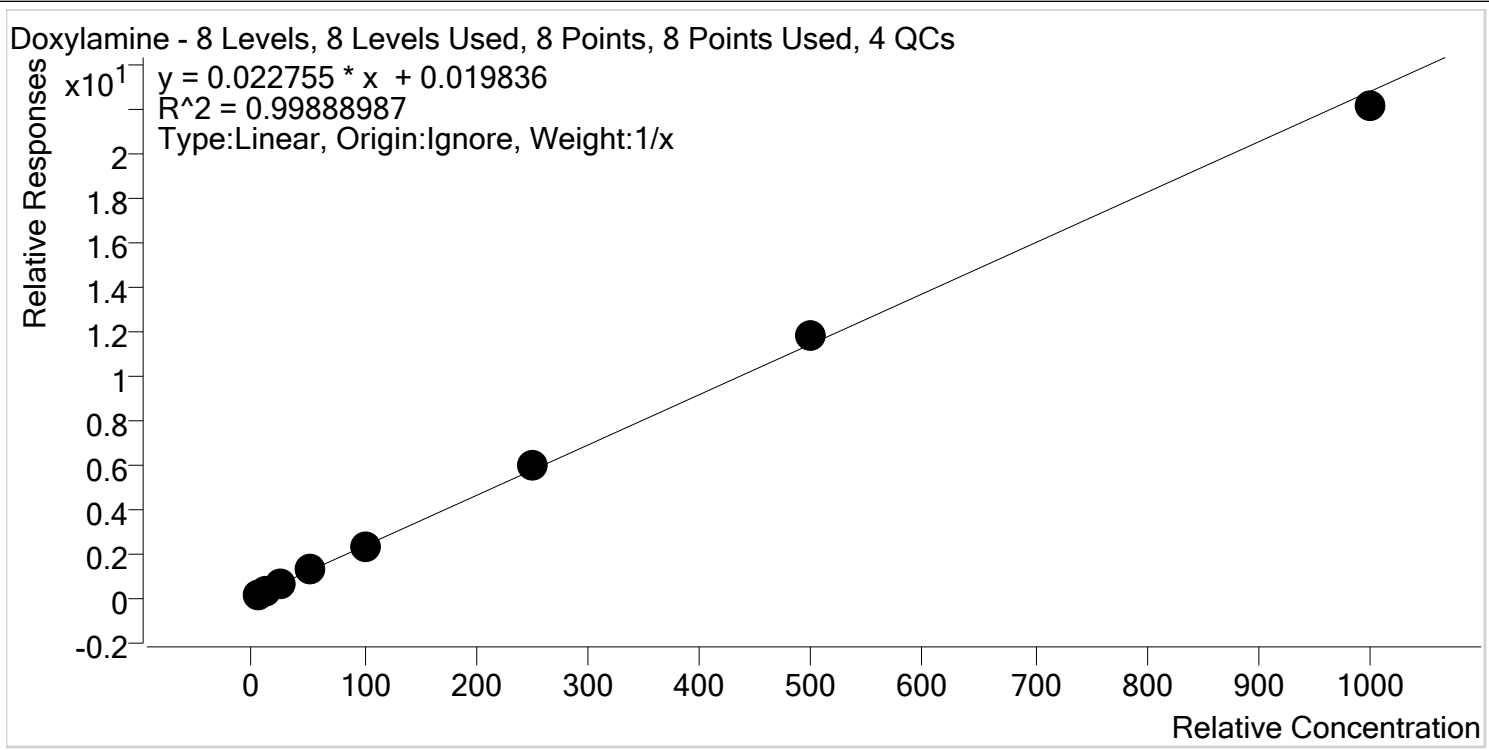


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.3	106.9
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.7
p1 Cal 3 -25ng	3	✓	25.0	24.4	97.6
p1 Cal 4-50ng	4	✓	50.0	49.3	98.5
p1 Cal 5-100ng	5	✓	100.0	96.3	96.3
p1 Cal 6-250ng	6	✓	250.0	245.9	98.4
p1 Cal 7-500ng	7	✓	500.0	497.8	99.6
p1 Cal 8-1000ng	8	✓	1000.0	1010.9	101.1



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1
 Meth Removed.batch.bin
Last Cal. Update 11/12/2019 8:42 AM
Analyst Name ISP\datastor
Analyte Doxylamine **Internal Standard** Doxylamine-D5

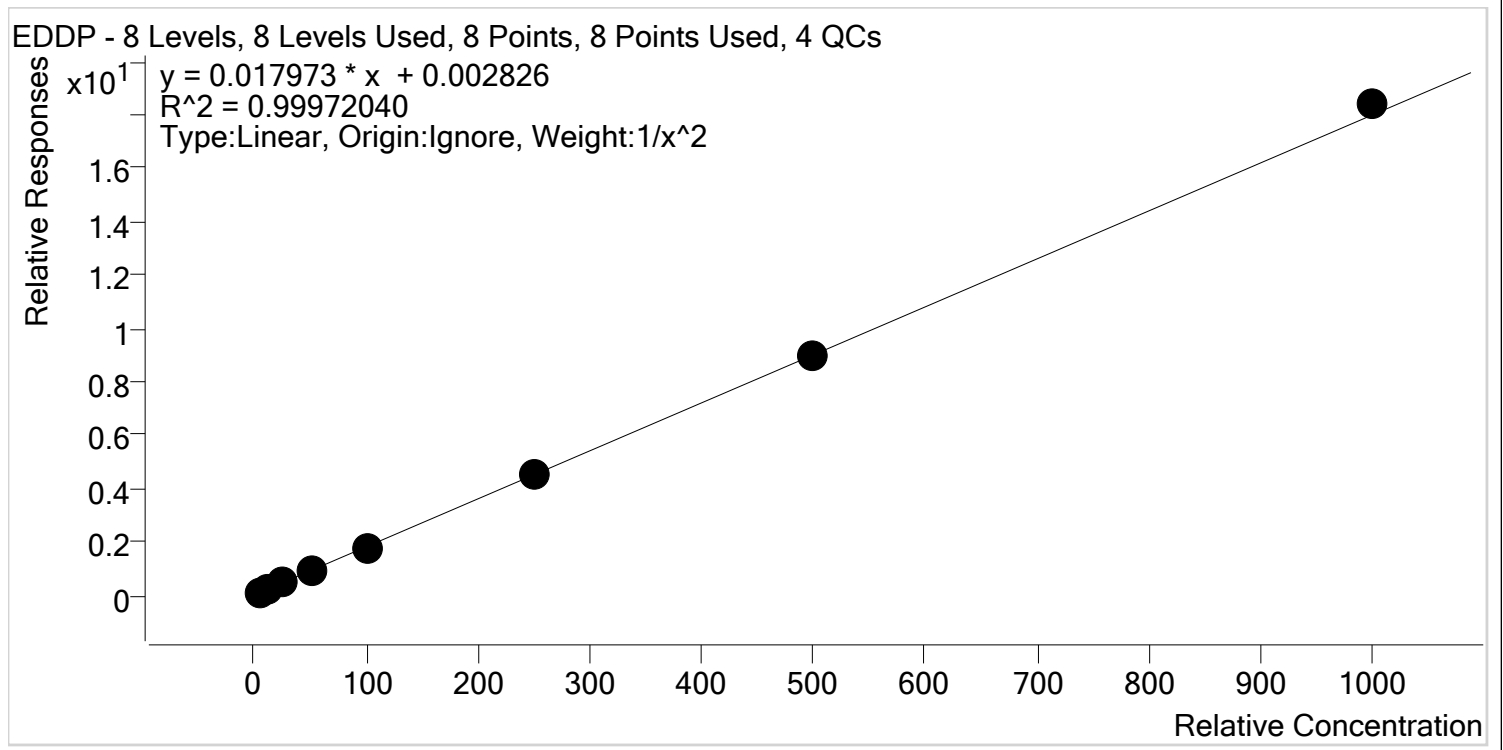


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.5	90.9
p1 Cal 2- 10ng	2	✓	10.0	9.7	96.5
p1 Cal 3 -25ng	3	✓	25.0	25.2	100.9
p1 Cal 4-50ng	4	✓	50.0	52.7	105.4
p1 Cal 5-100ng	5	✓	100.0	102.2	102.2
p1 Cal 6-250ng	6	✓	250.0	260.0	104.0
p1 Cal 7-500ng	7	✓	500.0	515.1	103.0
p1 Cal 8-1000ng	8	✓	1000.0	970.6	97.1



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1
 Meth Removed.batch.bin
Last Cal. Update 11/12/2019 8:42 AM
Analyst Name ISP\datastor
Analyte EDDP **Internal Standard** EDDP-D3

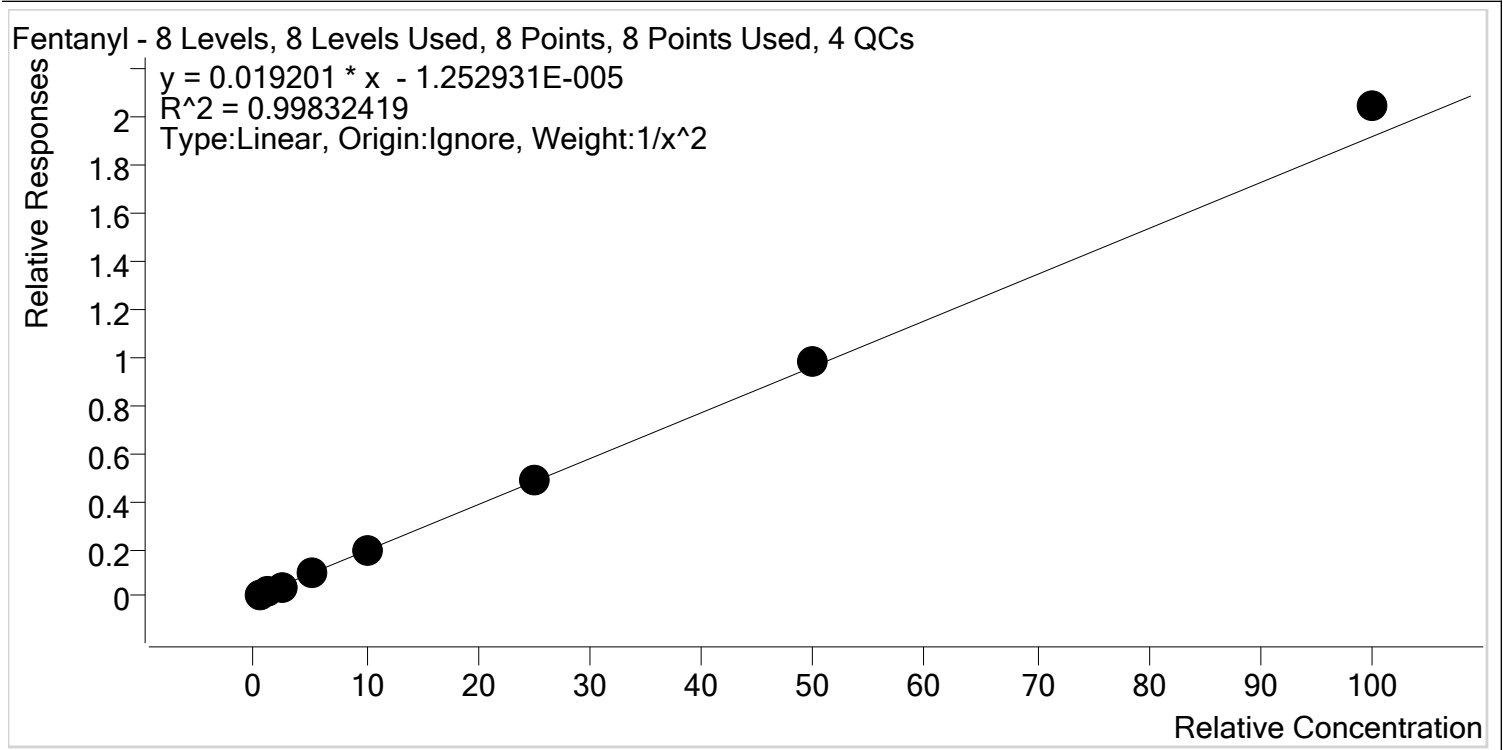


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.5
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.6
p1 Cal 3 -25ng	3	✓	25.0	24.6	98.4
p1 Cal 4-50ng	4	✓	50.0	50.7	101.3
p1 Cal 5-100ng	5	✓	100.0	97.8	97.8
p1 Cal 6-250ng	6	✓	250.0	250.2	100.1
p1 Cal 7-500ng	7	✓	500.0	500.5	100.1
p1 Cal 8-1000ng	8	✓	1000.0	1022.5	102.2



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1
 Meth Removed.batch.bin
Last Cal. Update 11/12/2019 8:42 AM
Analyst Name ISP\datastor
Analyte Fentanyl **Internal Standard** Fentanyl-D5

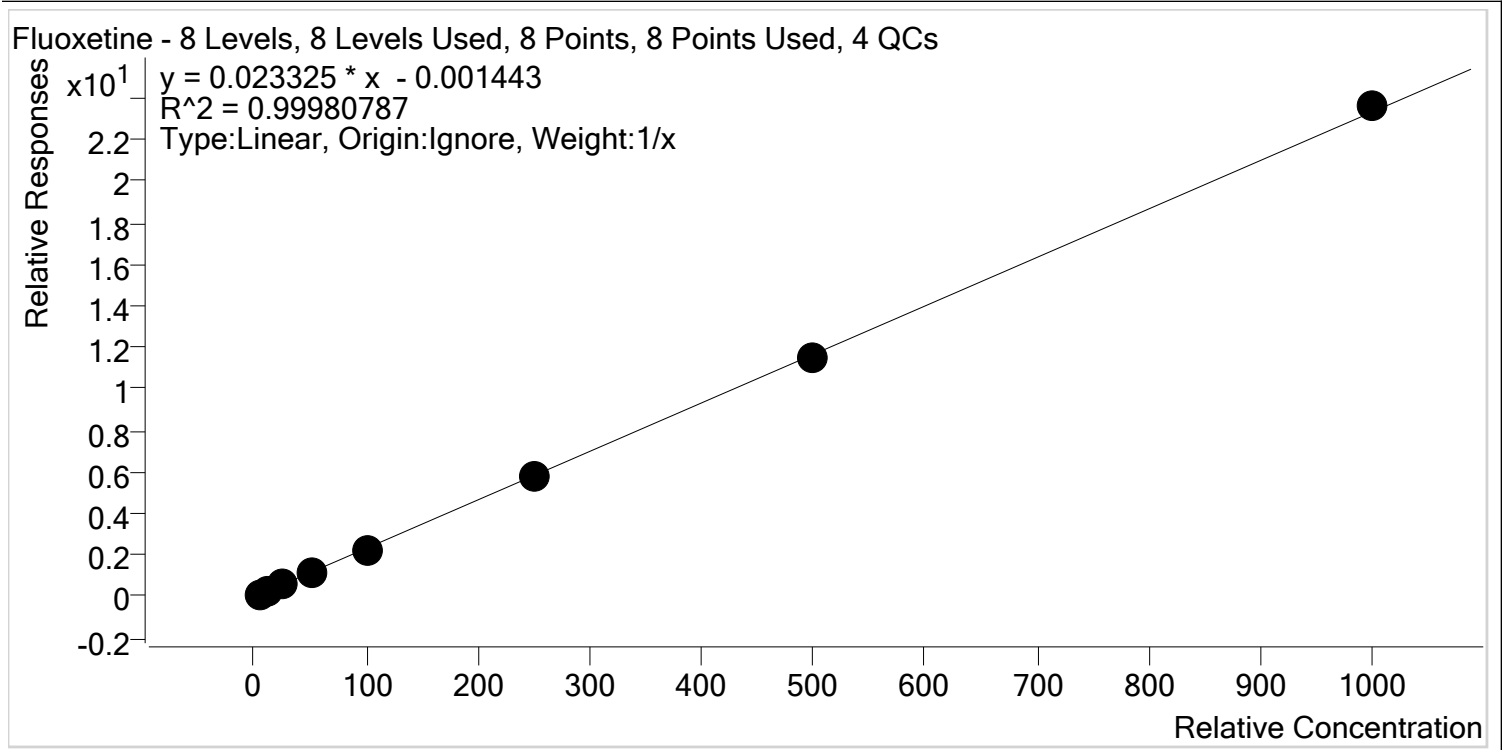


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	101.8
p1 Cal 2- 10ng	2	✓	1.0	1.0	98.9
p1 Cal 3 -25ng	3	✓	2.5	2.4	95.0
p1 Cal 4-50ng	4	✓	5.0	4.9	98.5
p1 Cal 5-100ng	5	✓	10.0	9.7	96.9
p1 Cal 6-250ng	6	✓	25.0	25.0	100.1
p1 Cal 7-500ng	7	✓	50.0	51.0	102.1
p1 Cal 8-1000ng	8	✓	100.0	106.6	106.6



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1
 Meth Removed.batch.bin
Last Cal. Update 11/12/2019 8:42 AM
Analyst Name ISP\datastor
Analyte Fluoxetine **Internal Standard** Fluoxetine-D6

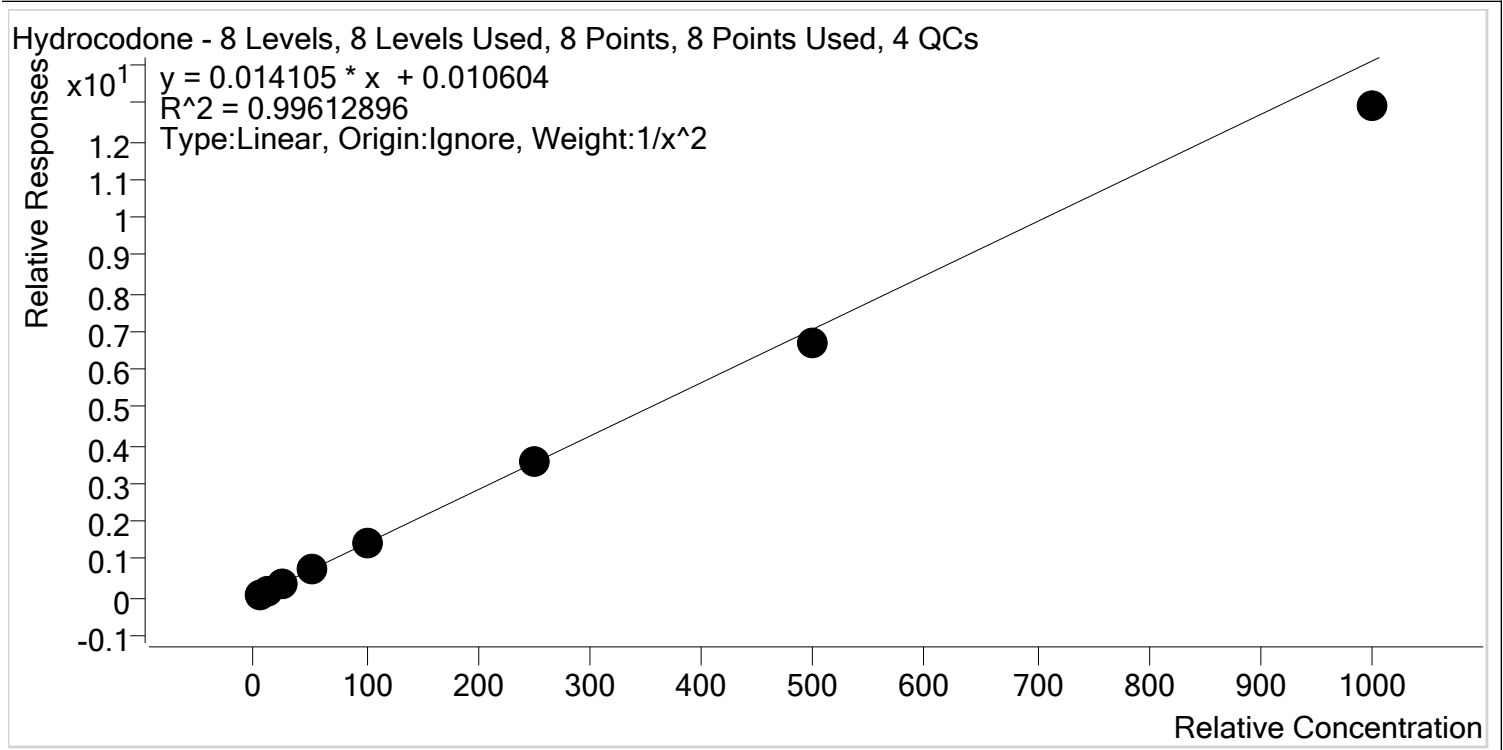


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.9
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.8
p1 Cal 3 -25ng	3	✓	25.0	24.7	98.7
p1 Cal 4-50ng	4	✓	50.0	50.5	101.0
p1 Cal 5-100ng	5	✓	100.0	98.0	98.0
p1 Cal 6-250ng	6	✓	250.0	247.2	98.9
p1 Cal 7-500ng	7	✓	500.0	492.4	98.5
p1 Cal 8-1000ng	8	✓	1000.0	1011.9	101.2



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1
 Meth Removed.batch.bin
Last Cal. Update 11/12/2019 8:42 AM
Analyst Name ISP\datastor
Analyte Hydrocodone **Internal Standard** Hydrocodone-D6

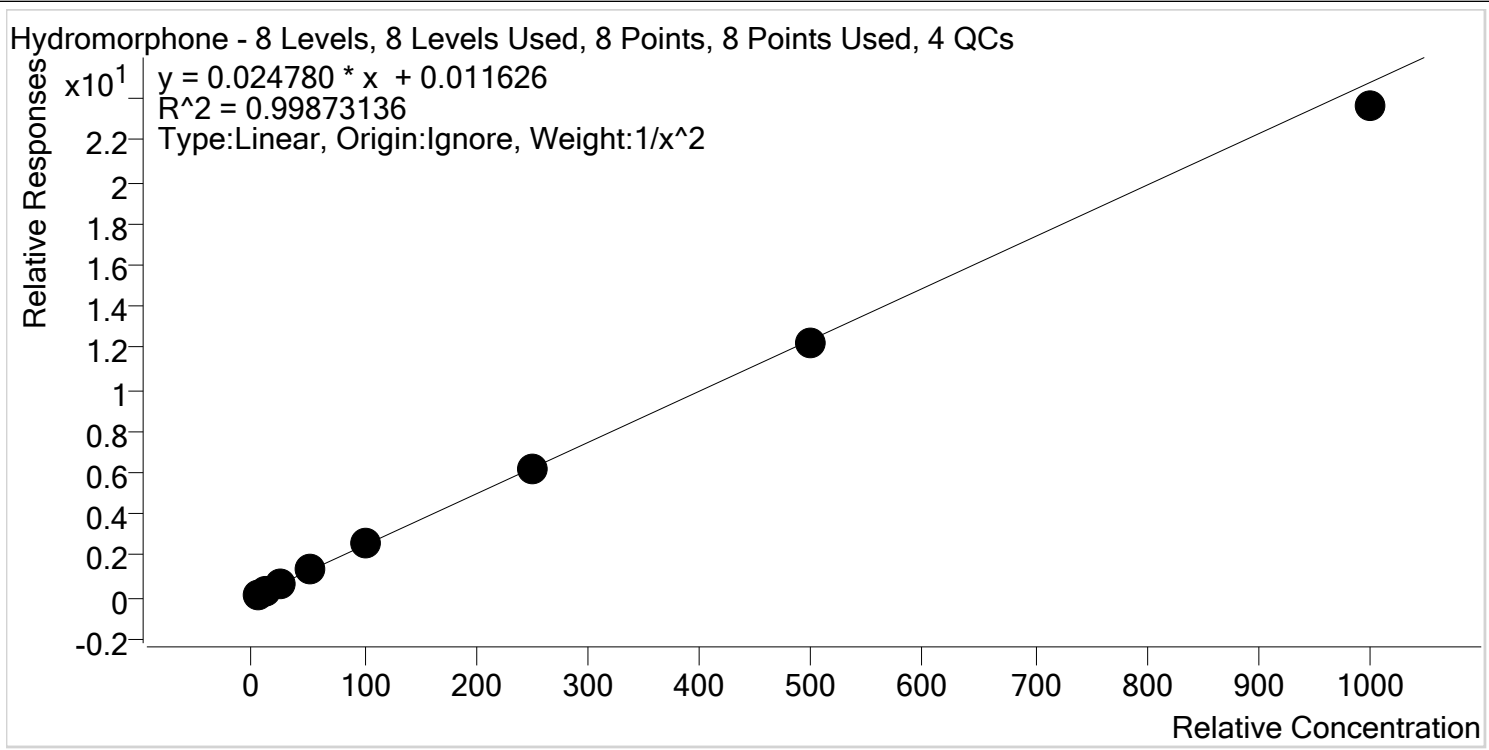


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.1
p1 Cal 2- 10ng	2	✓	10.0	10.3	102.6
p1 Cal 3 -25ng	3	✓	25.0	26.2	104.7
p1 Cal 4-50ng	4	✓	50.0	53.9	107.9
p1 Cal 5-100ng	5	✓	100.0	99.6	99.6
p1 Cal 6-250ng	6	✓	250.0	255.2	102.1
p1 Cal 7-500ng	7	✓	500.0	472.7	94.5
p1 Cal 8-1000ng	8	✓	1000.0	915.5	91.6



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1
 Meth Removed.batch.bin
Last Cal. Update 11/12/2019 8:42 AM
Analyst Name ISP\datastor
Analyte Hydromorphone **Internal Standard** Hydromorphone-D6

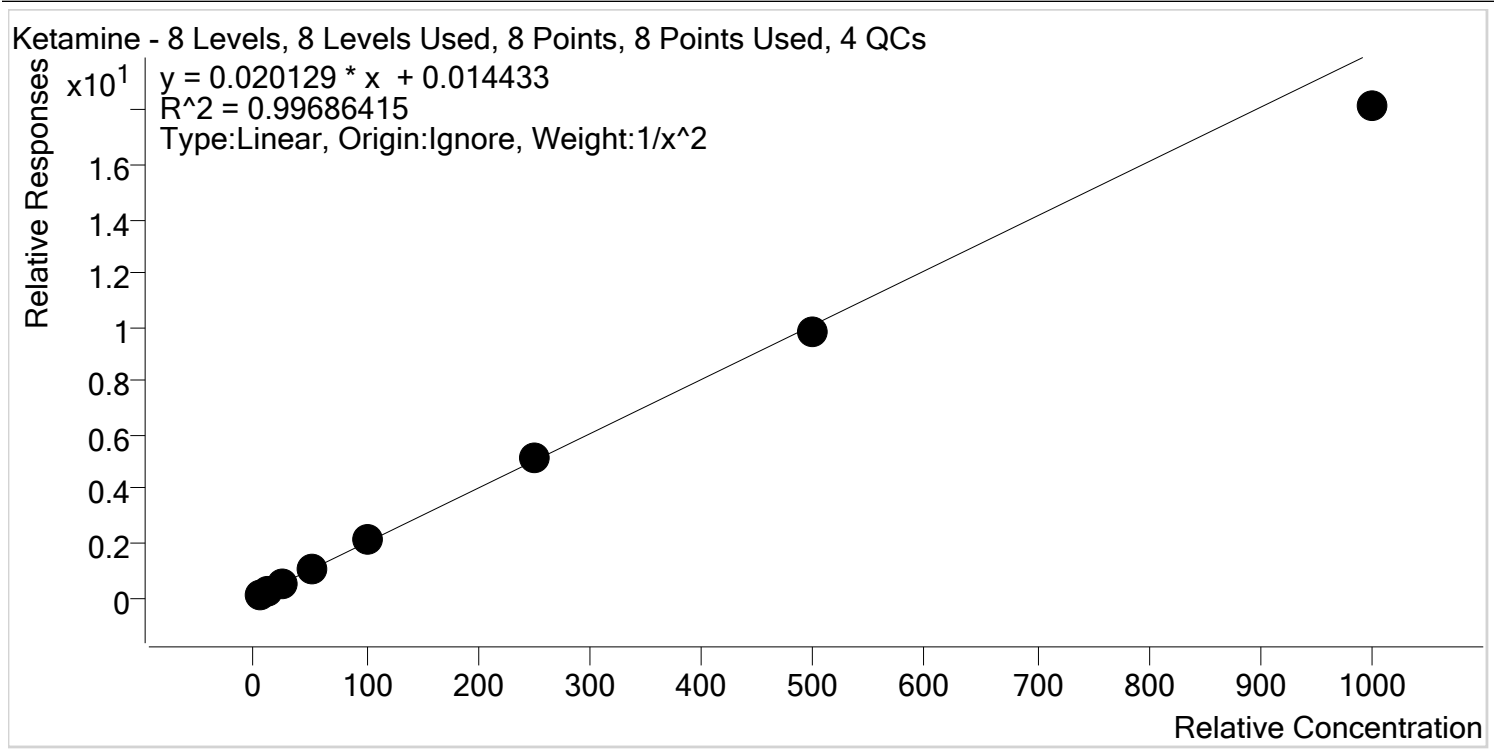


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.5
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.3
p1 Cal 3 -25ng	3	✓	25.0	24.7	98.7
p1 Cal 4-50ng	4	✓	50.0	52.8	105.6
p1 Cal 5-100ng	5	✓	100.0	101.2	101.2
p1 Cal 6-250ng	6	✓	250.0	250.3	100.1
p1 Cal 7-500ng	7	✓	500.0	491.0	98.2
p1 Cal 8-1000ng	8	✓	1000.0	953.7	95.4



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1
 Meth Removed.batch.bin
Last Cal. Update 11/12/2019 8:42 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	4.9	98.4
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.4
p1 Cal 3 -25ng	3	✓	25.0	26.0	103.9
p1 Cal 4-50ng	4	✓	50.0	52.8	105.7
p1 Cal 5-100ng	5	✓	100.0	102.9	102.9
p1 Cal 6-250ng	6	✓	250.0	253.8	101.5
p1 Cal 7-500ng	7	✓	500.0	485.2	97.0
p1 Cal 8-1000ng	8	✓	1000.0	902.0	90.2



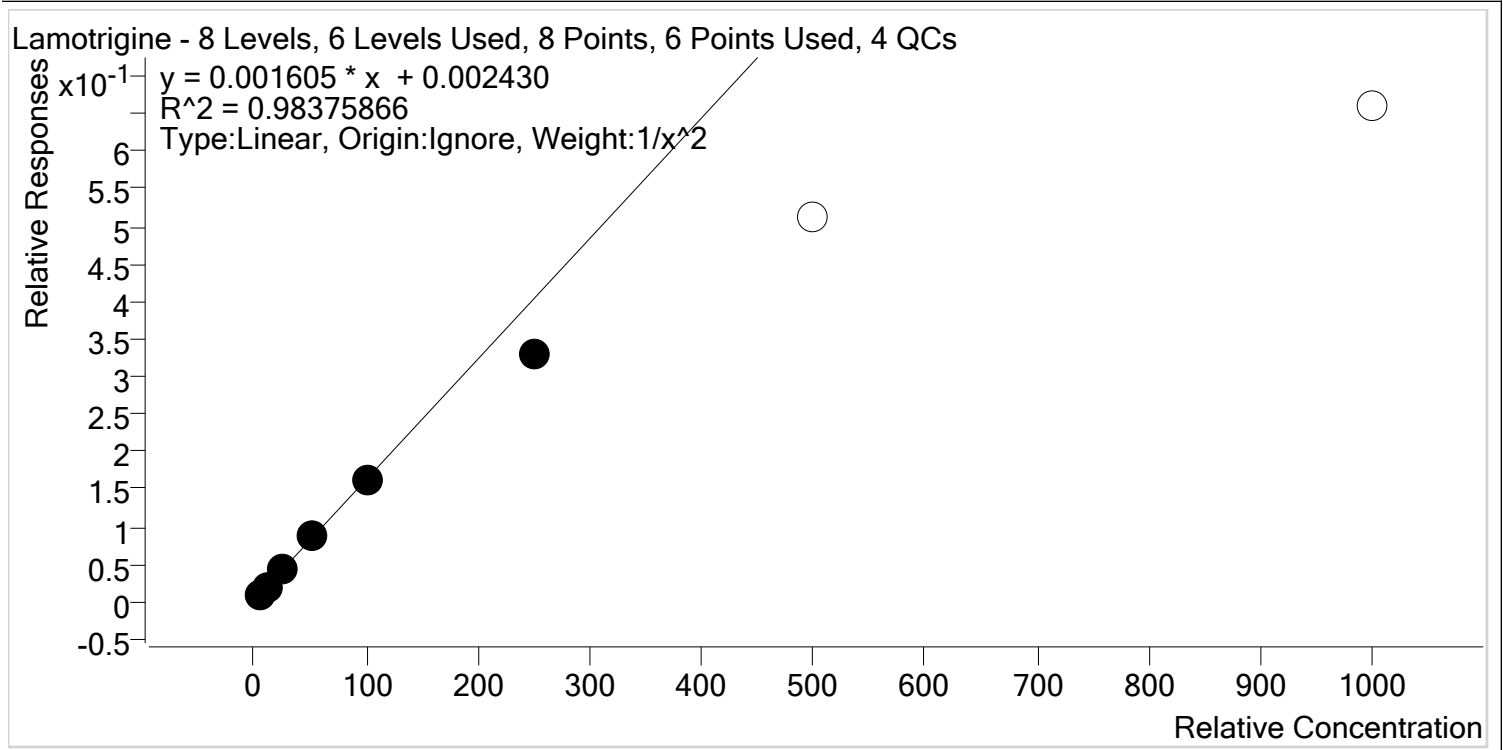
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1
Meth Removed.batch.bin

Last Cal. Update 11/12/2019 8:42 AM

Analyst Name ISP\datastor

Analyte Lamotrigine **Internal Standard** Ketamine-D4

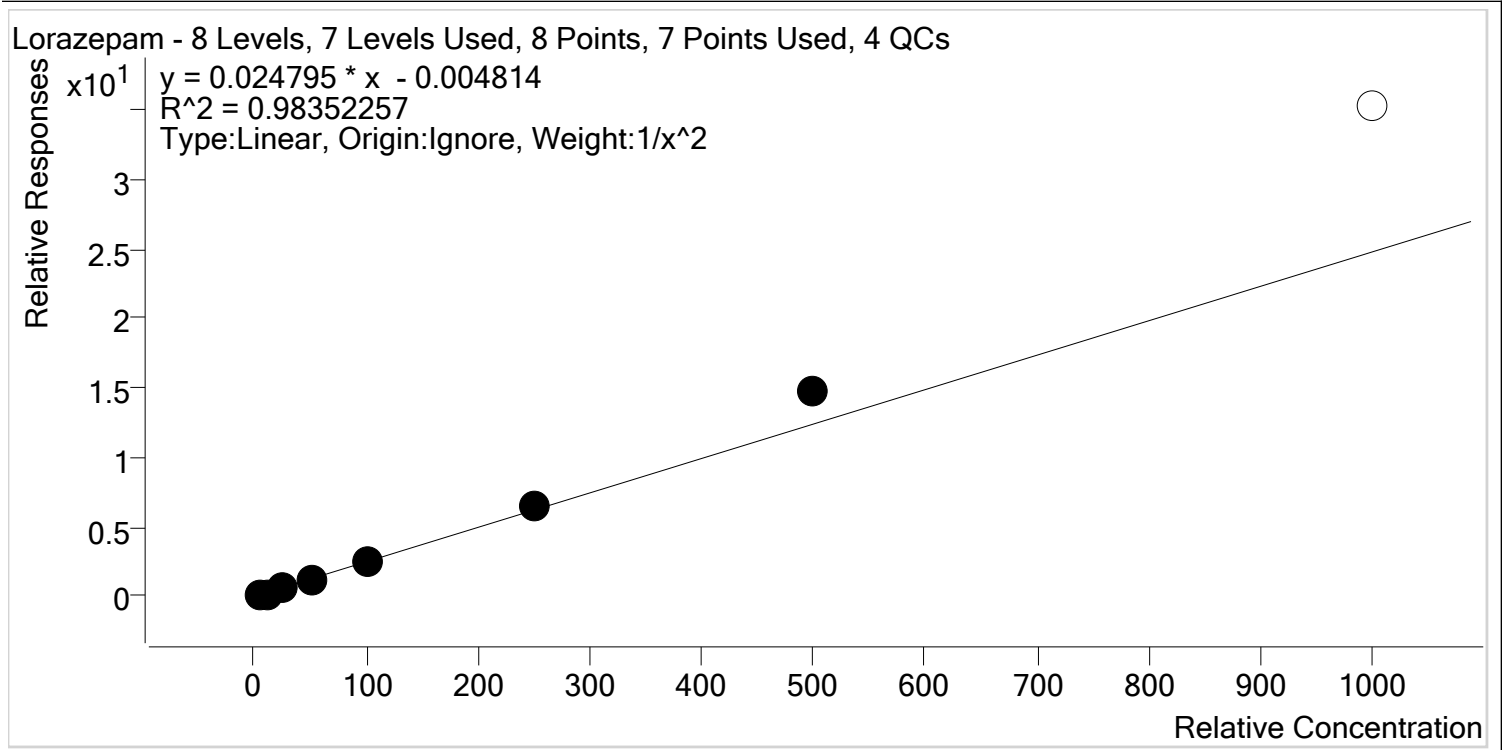


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	94.3
p1 Cal 2- 10ng	2	✓	10.0	10.7	107.2
p1 Cal 3 -25ng	3	✓	25.0	26.9	107.7
p1 Cal 4-50ng	4	✓	50.0	54.6	109.2
p1 Cal 5-100ng	5	✓	100.0	99.5	99.5
p1 Cal 6-250ng	6	✓	250.0	205.3	82.1
p1 Cal 7-500ng	7	✗	500.0	317.5	63.5
p1 Cal 8-1000ng	8	✗	1000.0	409.7	41.0



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1
 Meth Removed.batch.bin
Last Cal. Update 11/12/2019 8:42 AM
Analyst Name ISP\datastor
Analyte Lorazepam **Internal Standard** Clonazepam-D4

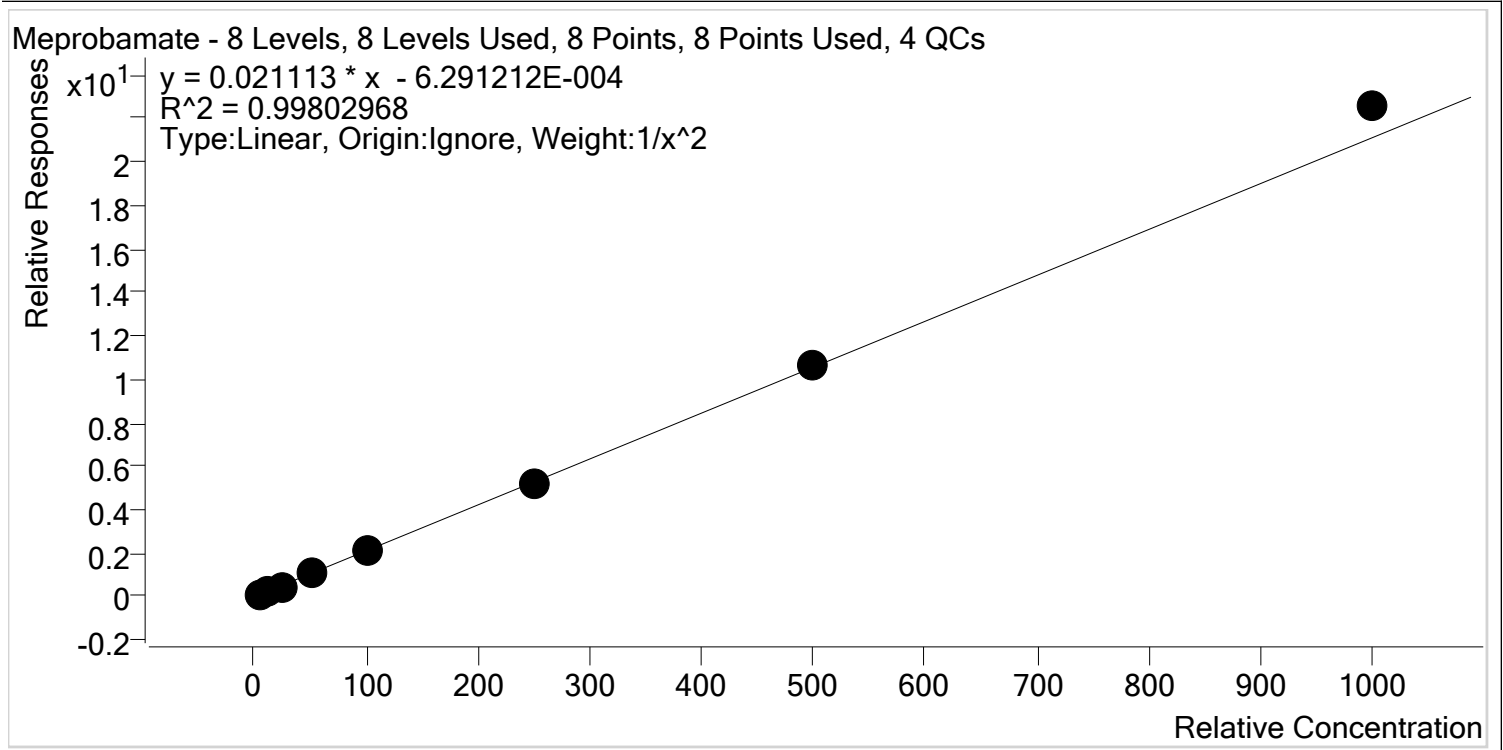


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.4	107.7
p1 Cal 2- 10ng	2	✓	10.0	8.9	89.2
p1 Cal 3 -25ng	3	✓	25.0	23.2	92.9
p1 Cal 4-50ng	4	✓	50.0	44.6	89.2
p1 Cal 5-100ng	5	✓	100.0	98.6	98.6
p1 Cal 6-250ng	6	✓	250.0	258.8	103.5
p1 Cal 7-500ng	7	✓	500.0	594.7	118.9
p1 Cal 8-1000ng	8	x	1000.0	1423.2	142.3



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1
 Meth Removed.batch.bin
Last Cal. Update 11/12/2019 8:42 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	5.1	101.2
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.5
p1 Cal 3 -25ng	3	✓	25.0	23.3	93.4
p1 Cal 4-50ng	4	✓	50.0	49.9	99.8
p1 Cal 5-100ng	5	✓	100.0	96.9	96.9
p1 Cal 6-250ng	6	✓	250.0	249.9	99.9
p1 Cal 7-500ng	7	✓	500.0	507.1	101.4
p1 Cal 8-1000ng	8	✓	1000.0	1068.6	106.9

CS



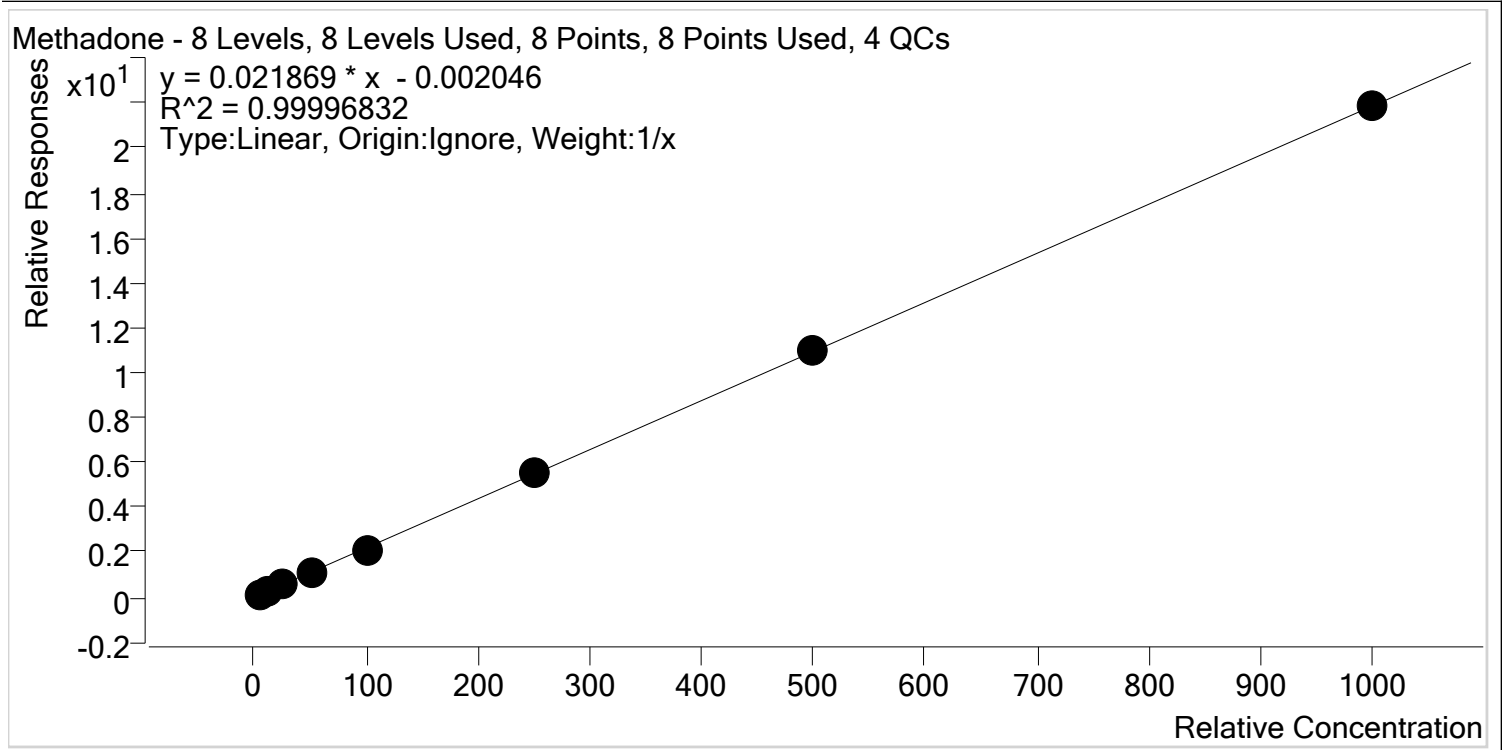
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1
Meth Removed.batch.bin

Last Cal. Update 11/12/2019 8:42 AM

Analyst Name ISP\datastor

Analyte Methadone **Internal Standard** Methadone-D9



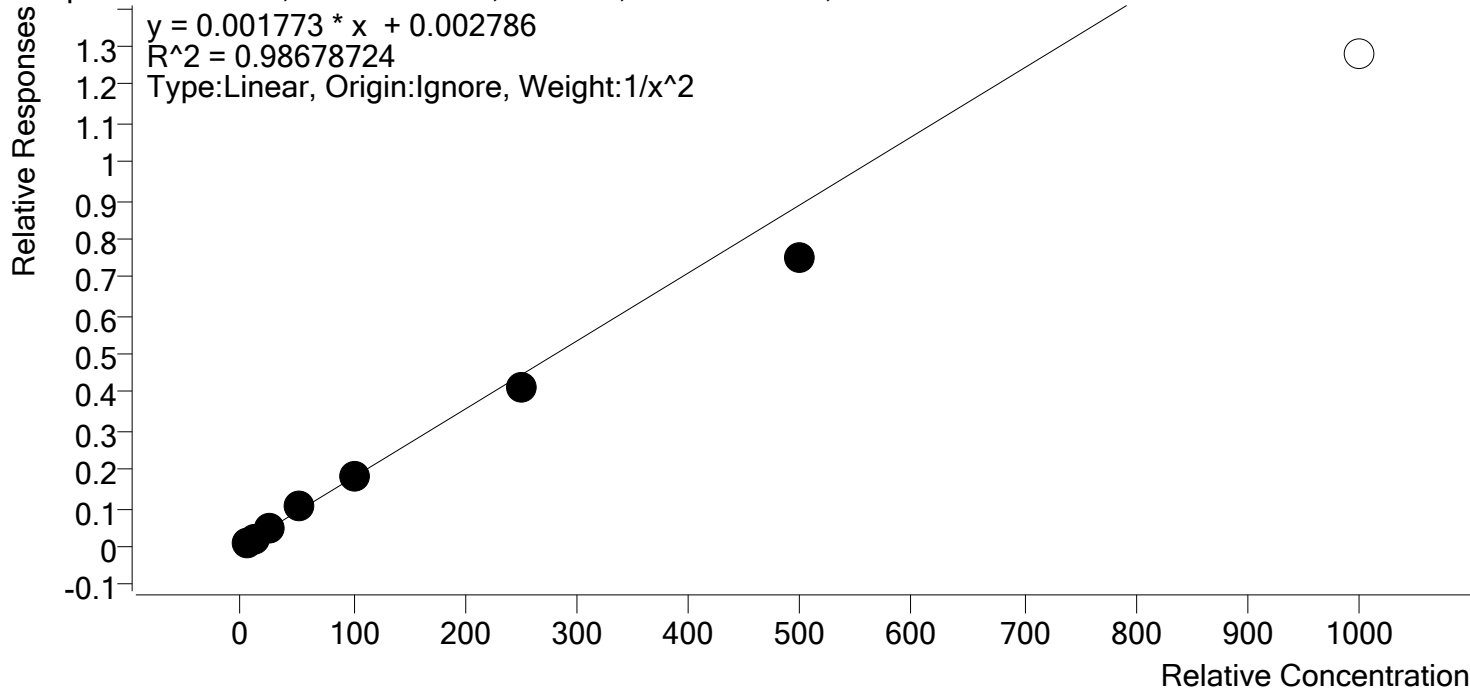
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.2	104.0
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.2
p1 Cal 3 -25ng	3	✓	25.0	24.5	98.1
p1 Cal 4-50ng	4	✓	50.0	49.8	99.6
p1 Cal 5-100ng	5	✓	100.0	98.3	98.3
p1 Cal 6-250ng	6	✓	250.0	251.4	100.6
p1 Cal 7-500ng	7	✓	500.0	501.1	100.2
p1 Cal 8-1000ng	8	✓	1000.0	999.8	100.0



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1
 Meth Removed.batch.bin
Last Cal. Update 11/12/2019 8:42 AM
Analyst Name ISP\datastor
Analyte Metoprolol **Internal Standard** Tramadol-13C-D3

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

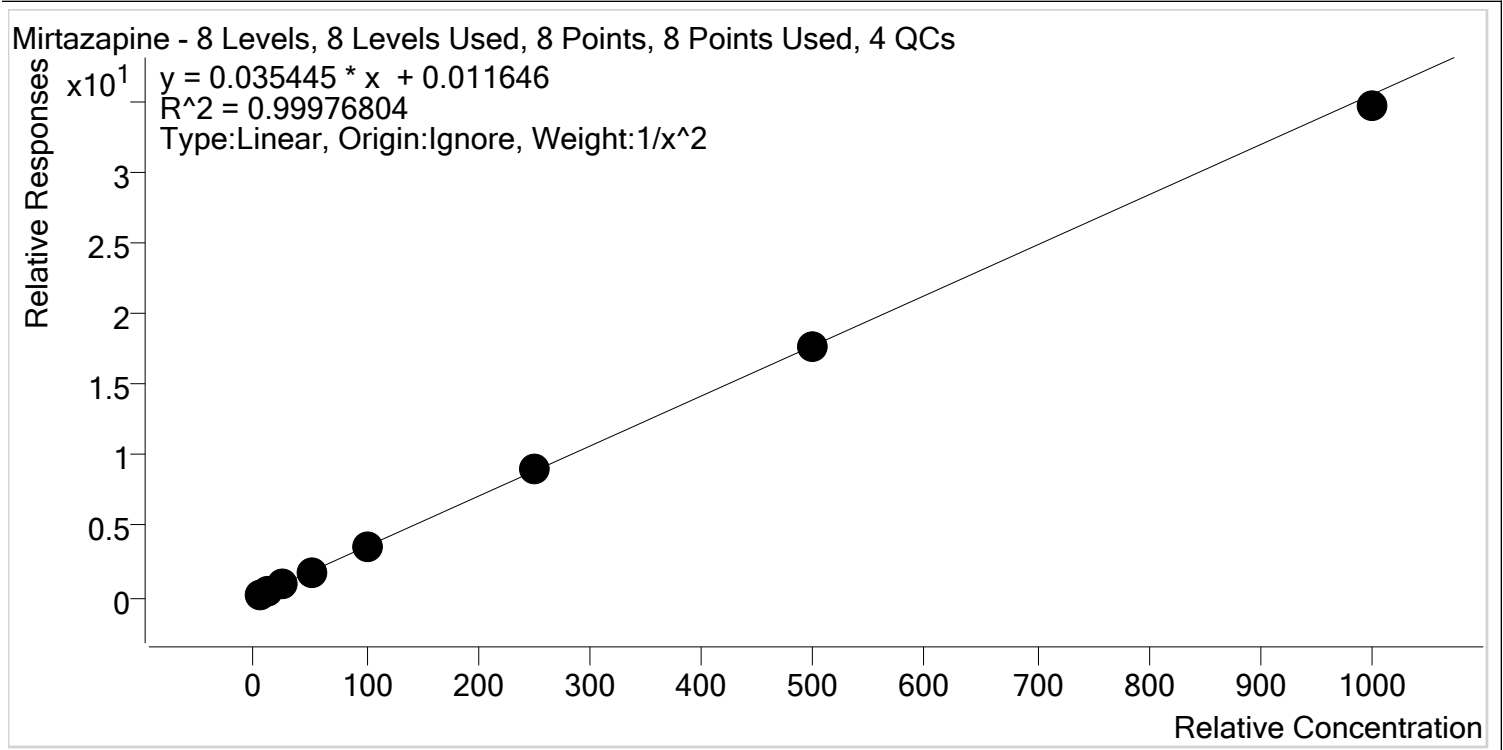


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.0
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.0
p1 Cal 3 -25ng	3	✓	25.0	27.5	110.1
p1 Cal 4-50ng	4	✓	50.0	55.7	111.5
p1 Cal 5-100ng	5	✓	100.0	104.0	104.0
p1 Cal 6-250ng	6	✓	250.0	229.8	91.9
p1 Cal 7-500ng	7	✓	500.0	422.8	84.6
p1 Cal 8-1000ng	8	x	1000.0	720.5	72.0



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1
 Meth Removed.batch.bin
Last Cal. Update 11/12/2019 8:42 AM
Analyst Name ISP\datastor
Analyte Mirtazapine **Internal Standard** alpha-PVP-d8

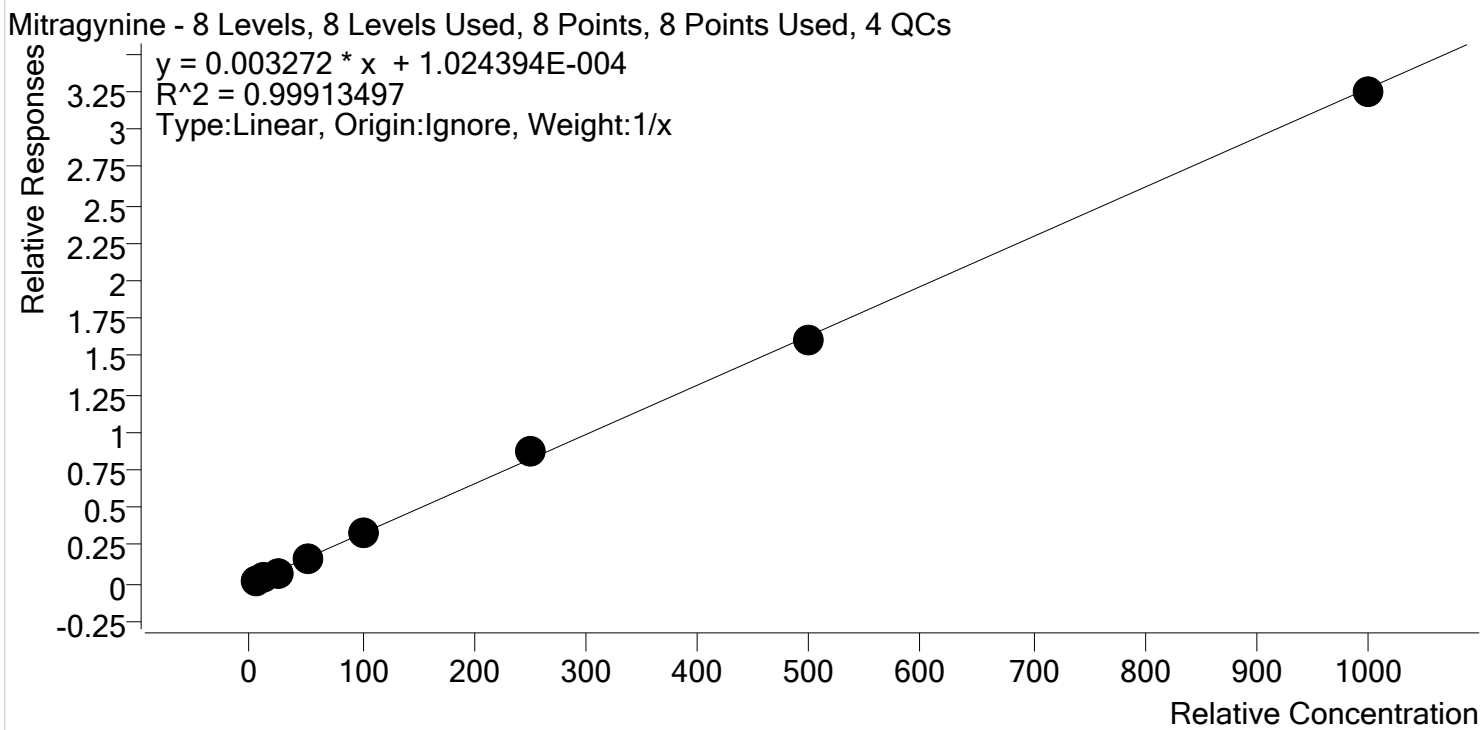


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.9
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.9
p1 Cal 3 -25ng	3	✓	25.0	24.9	99.7
p1 Cal 4-50ng	4	✓	50.0	51.2	102.4
p1 Cal 5-100ng	5	✓	100.0	99.7	99.7
p1 Cal 6-250ng	6	✓	250.0	251.9	100.8
p1 Cal 7-500ng	7	✓	500.0	500.2	100.0
p1 Cal 8-1000ng	8	✓	1000.0	976.5	97.6



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1
 Meth Removed.batch.bin
Last Cal. Update 11/12/2019 8:42 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	5.2	103.7
p1 Cal 2- 10ng	2	✓	10.0	9.9	98.8
p1 Cal 3 -25ng	3	✓	25.0	22.4	89.8
p1 Cal 4-50ng	4	✓	50.0	52.1	104.1
p1 Cal 5-100ng	5	✓	100.0	99.4	99.4
p1 Cal 6-250ng	6	✓	250.0	265.9	106.4
p1 Cal 7-500ng	7	✓	500.0	492.9	98.6
p1 Cal 8-1000ng	8	✓	1000.0	992.2	99.2

23



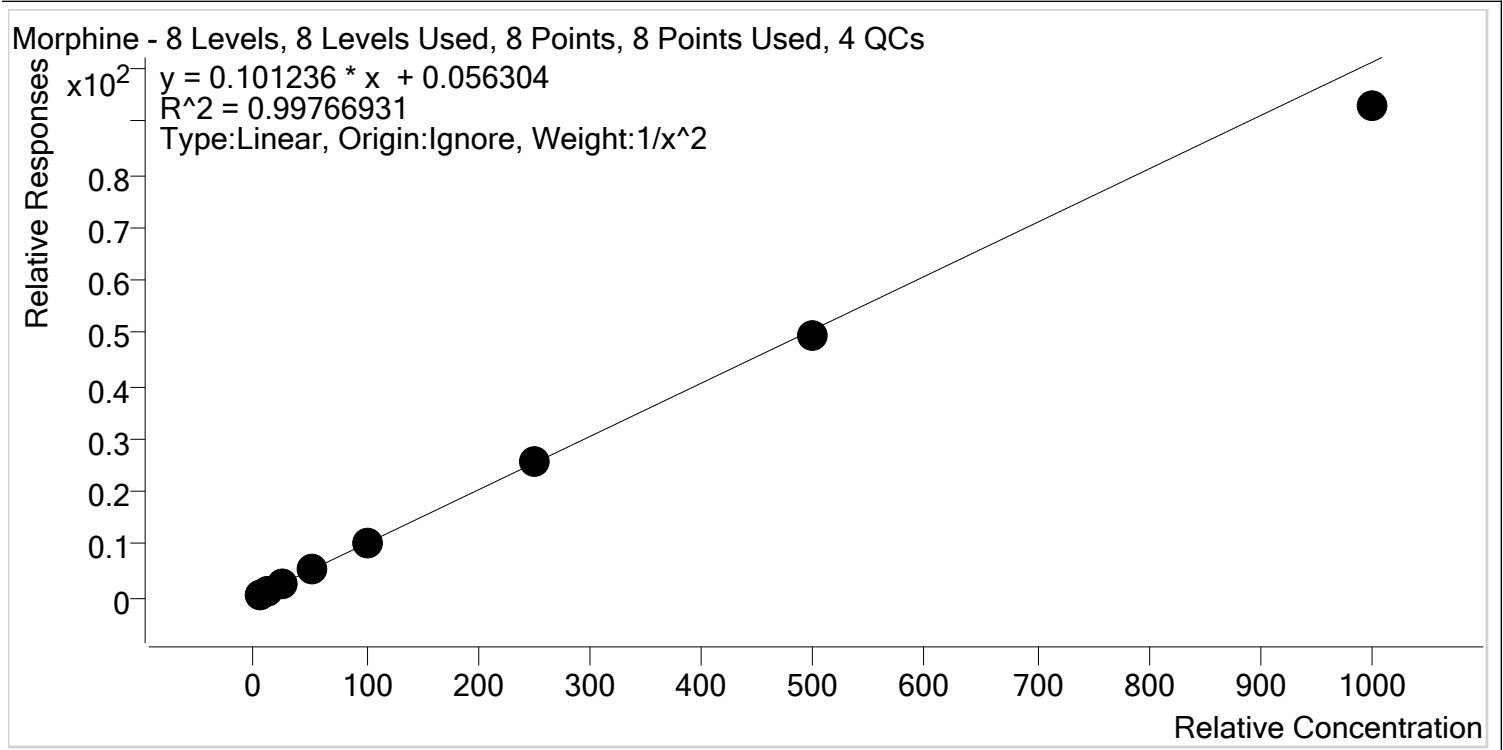
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1
Meth Removed.batch.bin

Last Cal. Update 11/12/2019 8:42 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	4.9	98.5
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.4
p1 Cal 3 -25ng	3	✓	25.0	26.0	104.0
p1 Cal 4-50ng	4	✓	50.0	52.4	104.7
p1 Cal 5-100ng	5	✓	100.0	100.8	100.8
p1 Cal 6-250ng	6	✓	250.0	256.2	102.5
p1 Cal 7-500ng	7	✓	500.0	486.4	97.3
p1 Cal 8-1000ng	8	✓	1000.0	917.5	91.8



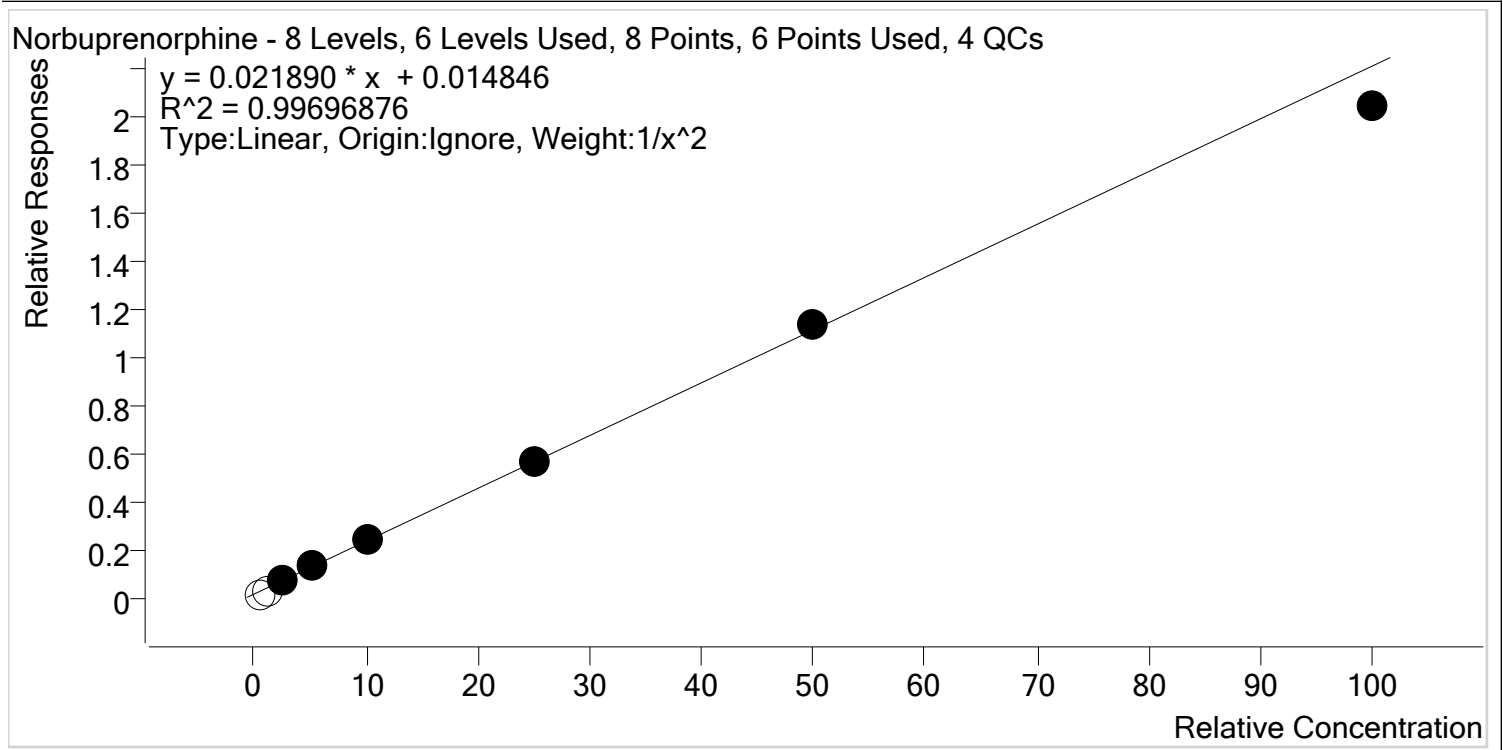
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1
Meth Removed.batch.bin

Last Cal. Update 11/12/2019 8:42 AM

Analyst Name ISP\datastor

Analyte Norbuprenorphine **Internal Standard** Norbuprenorphine-D3

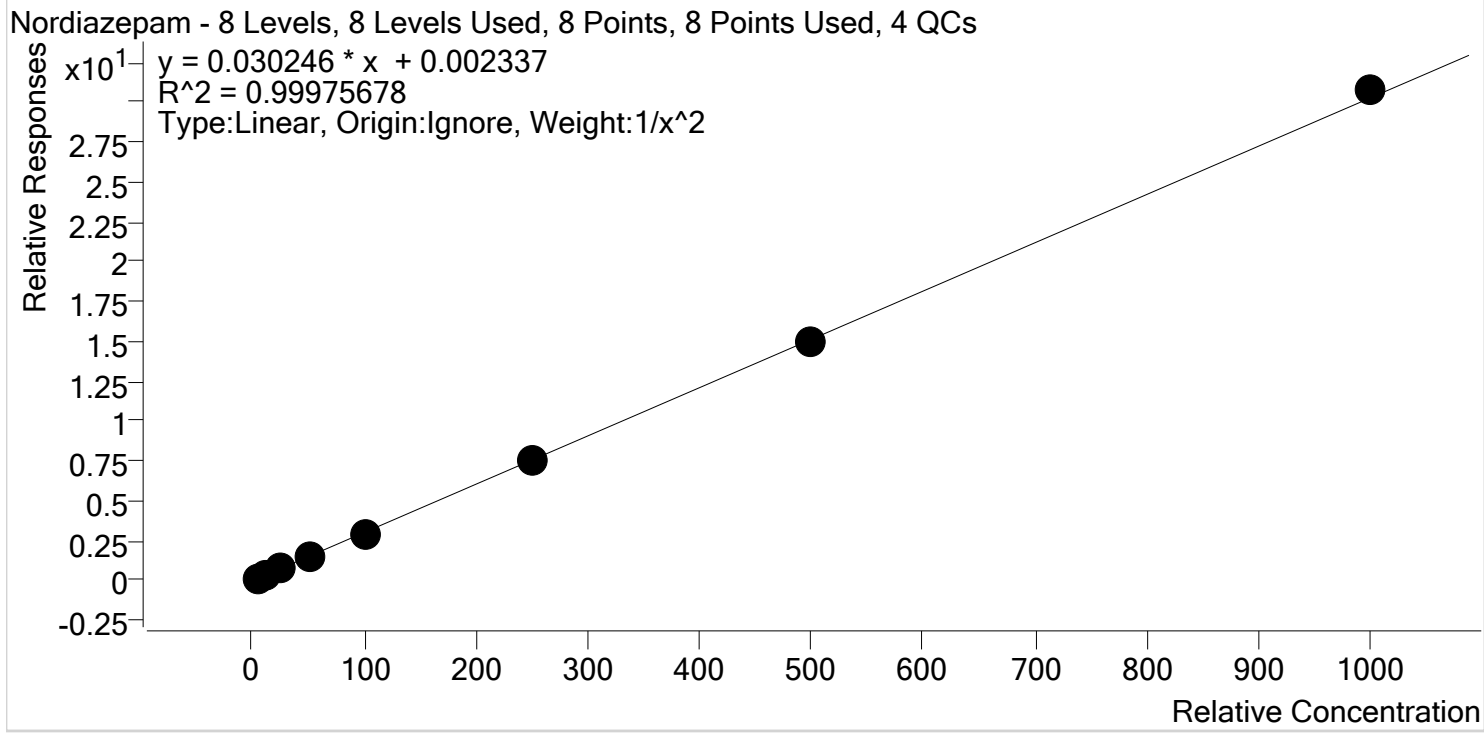


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	x	0.5	0.0	0.0
p1 Cal 2- 10ng	2	x	1.0	0.6	62.0
p1 Cal 3 -25ng	3	✓	2.5	2.4	97.4
p1 Cal 4-50ng	4	✓	5.0	5.2	103.2
p1 Cal 5-100ng	5	✓	10.0	10.4	103.8
p1 Cal 6-250ng	6	✓	25.0	25.1	100.4
p1 Cal 7-500ng	7	✓	50.0	51.4	102.7
p1 Cal 8-1000ng	8	✓	100.0	92.4	92.4



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1
 Meth Removed.batch.bin
Last Cal. Update 11/12/2019 8:42 AM
Analyst Name ISP\datastor
Analyte Nordiazepam **Internal Standard** Nordiazepam-D5



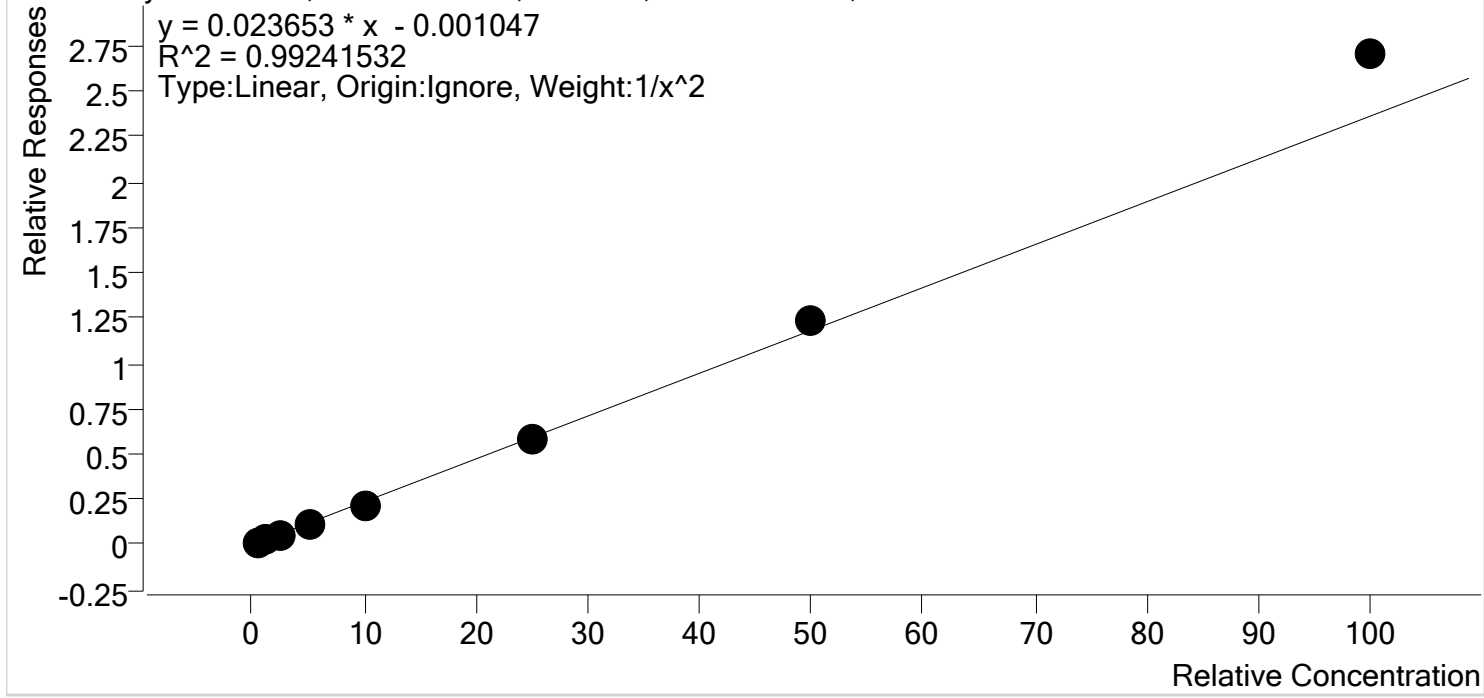
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.5
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.7
p1 Cal 3 -25ng	3	✓	25.0	25.2	101.0
p1 Cal 4-50ng	4	✓	50.0	50.6	101.1
p1 Cal 5-100ng	5	✓	100.0	97.6	97.6
p1 Cal 6-250ng	6	✓	250.0	247.1	98.8
p1 Cal 7-500ng	7	✓	500.0	498.5	99.7
p1 Cal 8-1000ng	8	✓	1000.0	1016.0	101.6



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1
 Meth Removed.batch.bin
Last Cal. Update 11/12/2019 8:42 AM
Analyst Name ISP\datastor
Analyte Norfentanyl **Internal Standard** Norfentanyl-D5

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	104.6
p1 Cal 2- 10ng	2	✓	1.0	1.0	95.3
p1 Cal 3 -25ng	3	✓	2.5	2.3	92.2
p1 Cal 4-50ng	4	✓	5.0	4.8	95.2
p1 Cal 5-100ng	5	✓	10.0	9.3	93.4
p1 Cal 6-250ng	6	✓	25.0	25.0	99.9
p1 Cal 7-500ng	7	✓	50.0	52.5	104.9
p1 Cal 8-1000ng	8	✓	100.0	114.4	114.4

cg



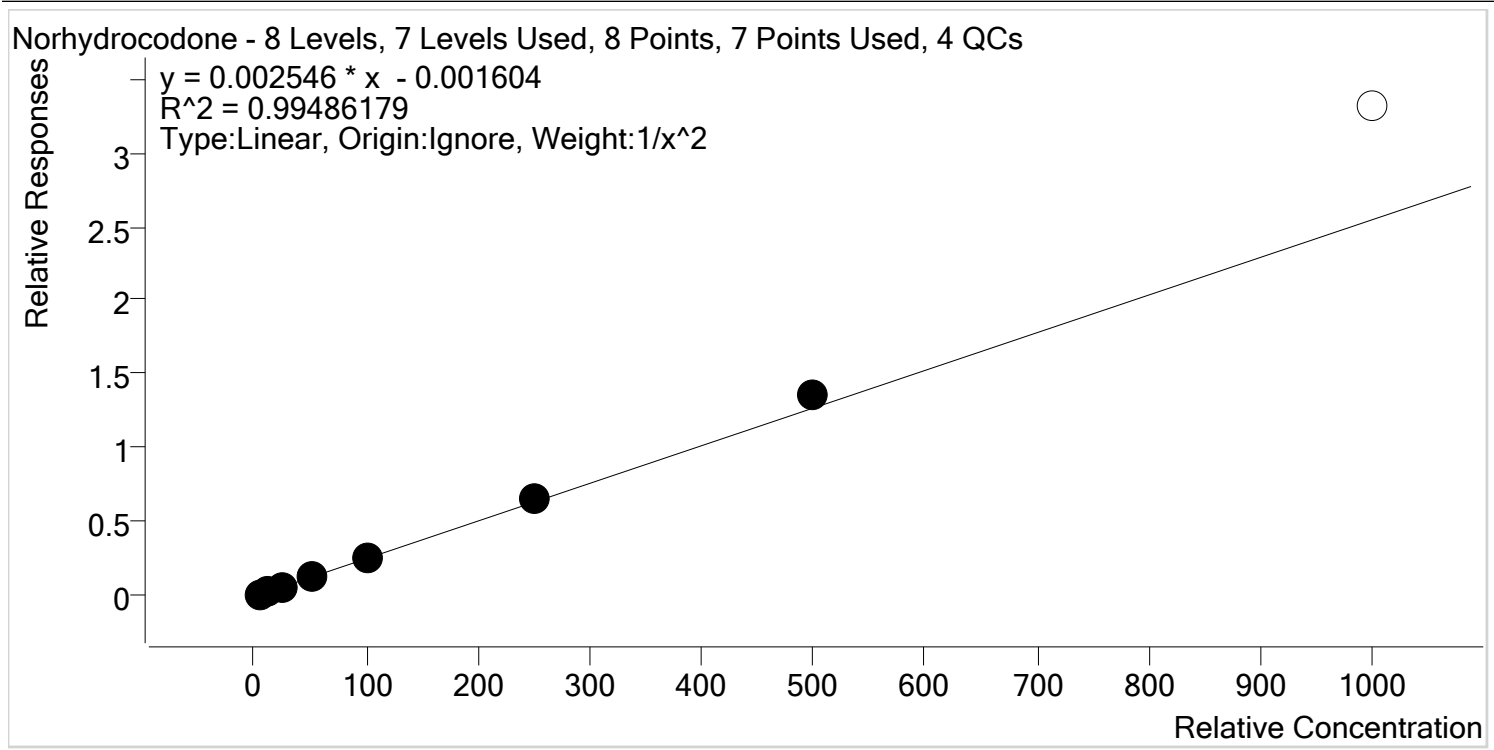
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1
Meth Removed.batch.bin

Last Cal. Update 11/12/2019 8:42 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	5.3	105.9
p1 Cal 2- 10ng	2	✓	10.0	9.0	90.2
p1 Cal 3 -25ng	3	✓	25.0	23.8	95.4
p1 Cal 4-50ng	4	✓	50.0	49.3	98.6
p1 Cal 5-100ng	5	✓	100.0	98.8	98.8
p1 Cal 6-250ng	6	✓	250.0	260.2	104.1
p1 Cal 7-500ng	7	✓	500.0	535.5	107.1
p1 Cal 8-1000ng	8	x	1000.0	1301.4	130.1



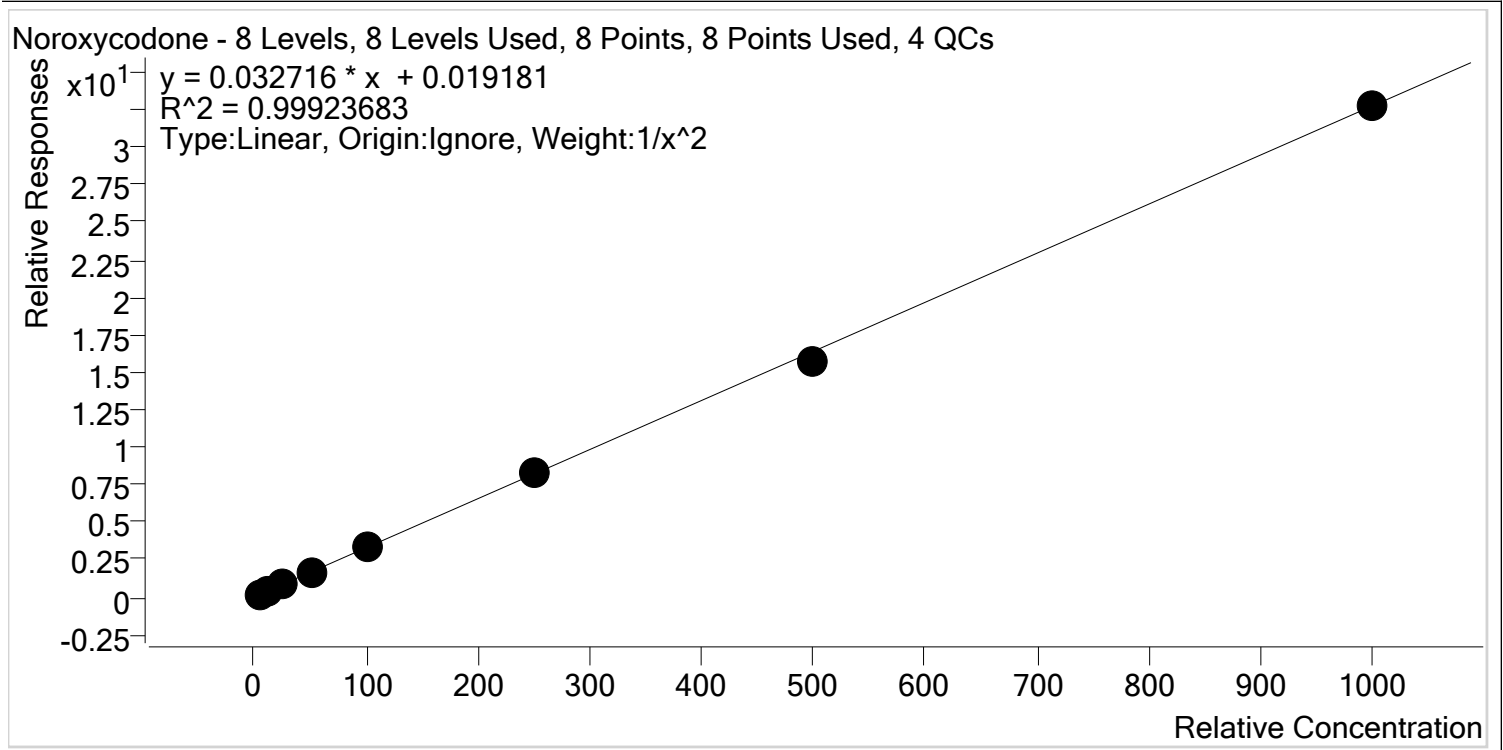
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1
Meth Removed.batch.bin

Last Cal. Update 11/12/2019 8:42 AM

Analyst Name ISP\datastor

Analyte Noroxycodone **Internal Standard** Noroxycodone-D3

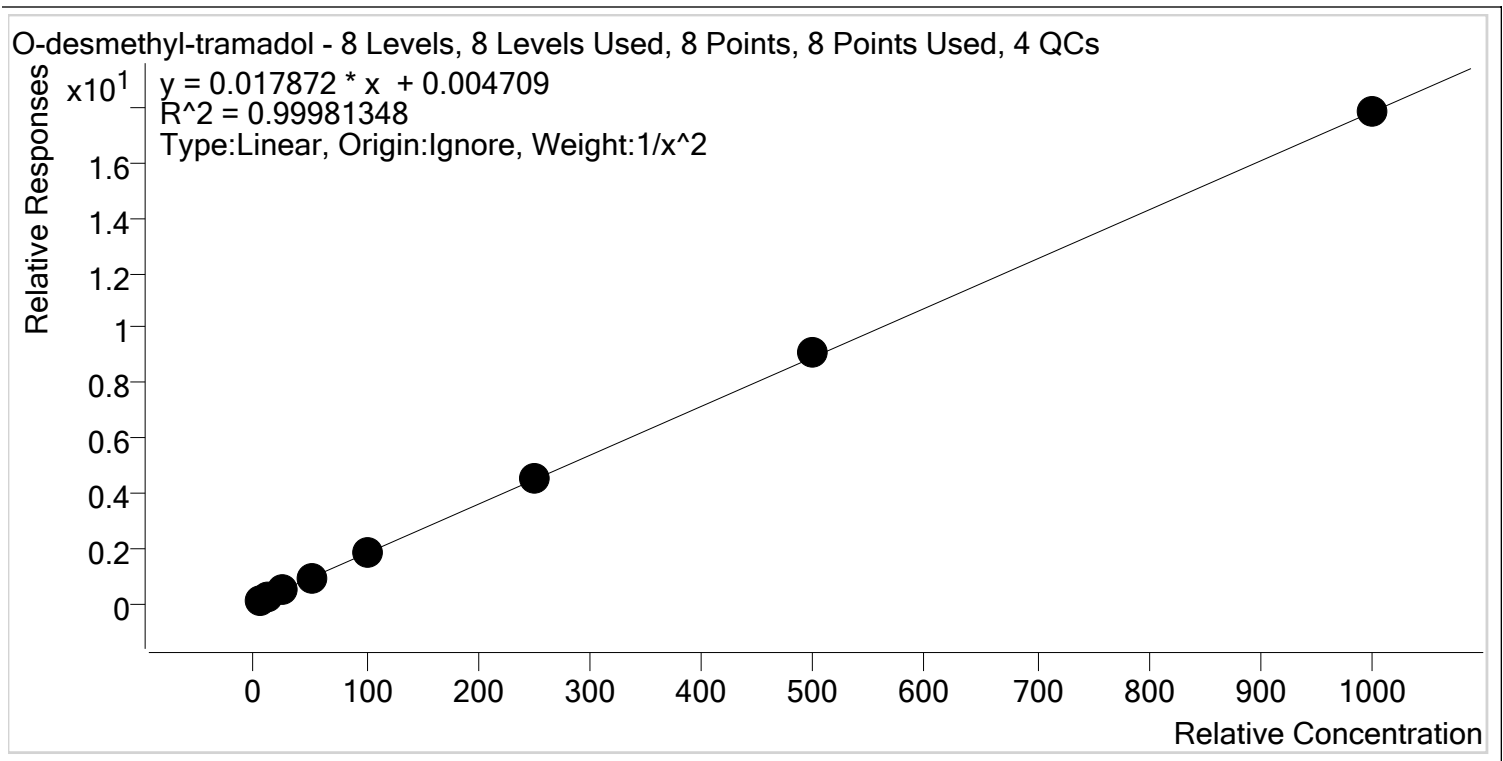


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.6
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.3
p1 Cal 3 -25ng	3	✓	25.0	25.0	99.9
p1 Cal 4-50ng	4	✓	50.0	51.8	103.6
p1 Cal 5-100ng	5	✓	100.0	98.9	98.9
p1 Cal 6-250ng	6	✓	250.0	252.5	101.0
p1 Cal 7-500ng	7	✓	500.0	478.6	95.7
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 Combo Run 110619 CS\QuantResults\MDQ P1
 Meth Removed.batch.bin
Last Cal. Update 11/12/2019 8:42 AM
Analyst Name ISP\datastor
Analyte O-desmethyl-tramadol **Internal Standard** O-desmethyl-tramadol-D6

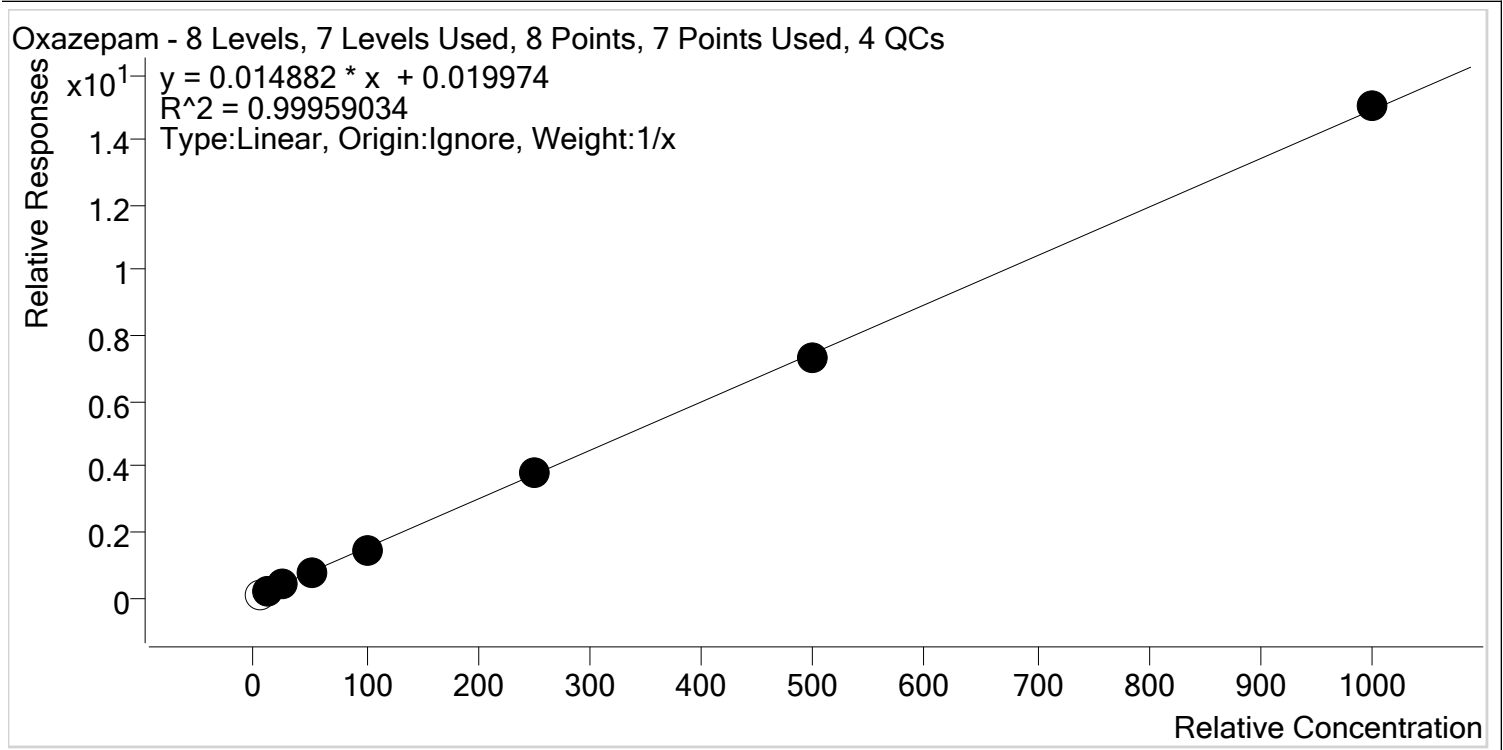


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.8
p1 Cal 2- 10ng	2	✓	10.0	9.9	98.9
p1 Cal 3 -25ng	3	✓	25.0	24.6	98.5
p1 Cal 4-50ng	4	✓	50.0	50.5	101.0
p1 Cal 5-100ng	5	✓	100.0	98.5	98.5
p1 Cal 6-250ng	6	✓	250.0	252.1	100.8
p1 Cal 7-500ng	7	✓	500.0	507.0	101.4
p1 Cal 8-1000ng	8	✓	1000.0	1000.0	100.0



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1
 Meth Removed.batch.bin
Last Cal. Update 11/12/2019 8:42 AM
Analyst Name ISP\datastor
Analyte Oxazepam **Internal Standard** Oxazepam-D5

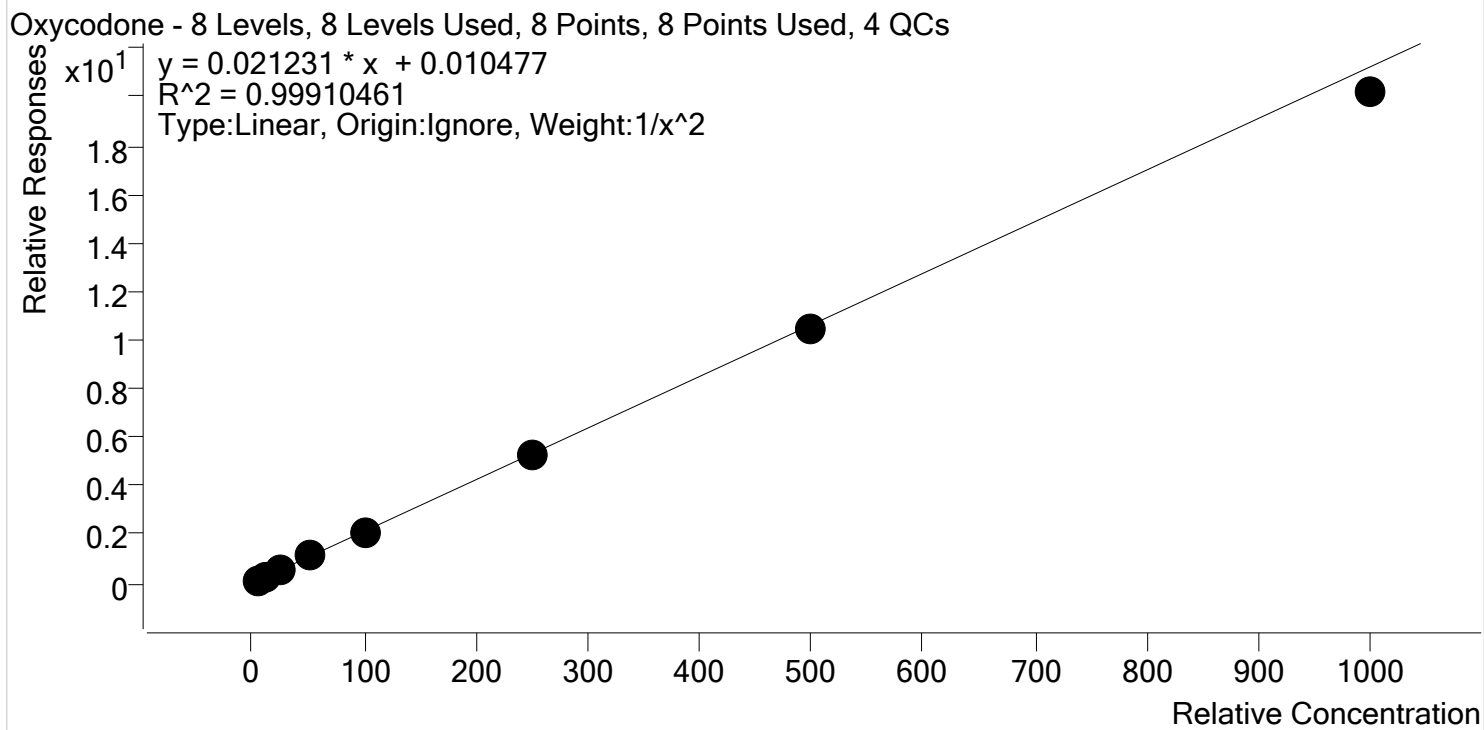


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	x	5.0	4.1	81.6
p1 Cal 2- 10ng	2	✓	10.0	9.0	90.1
p1 Cal 3 -25ng	3	✓	25.0	27.7	110.8
p1 Cal 4-50ng	4	✓	50.0	50.9	101.9
p1 Cal 5-100ng	5	✓	100.0	98.0	98.0
p1 Cal 6-250ng	6	✓	250.0	250.8	100.3
p1 Cal 7-500ng	7	✓	500.0	490.9	98.2
p1 Cal 8-1000ng	8	✓	1000.0	1007.8	100.8



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1
 Meth Removed.batch.bin
Last Cal. Update 11/12/2019 8:42 AM
Analyst Name ISP\datastor
Analyte Oxycodone **Internal Standard** Oxycodone-D6

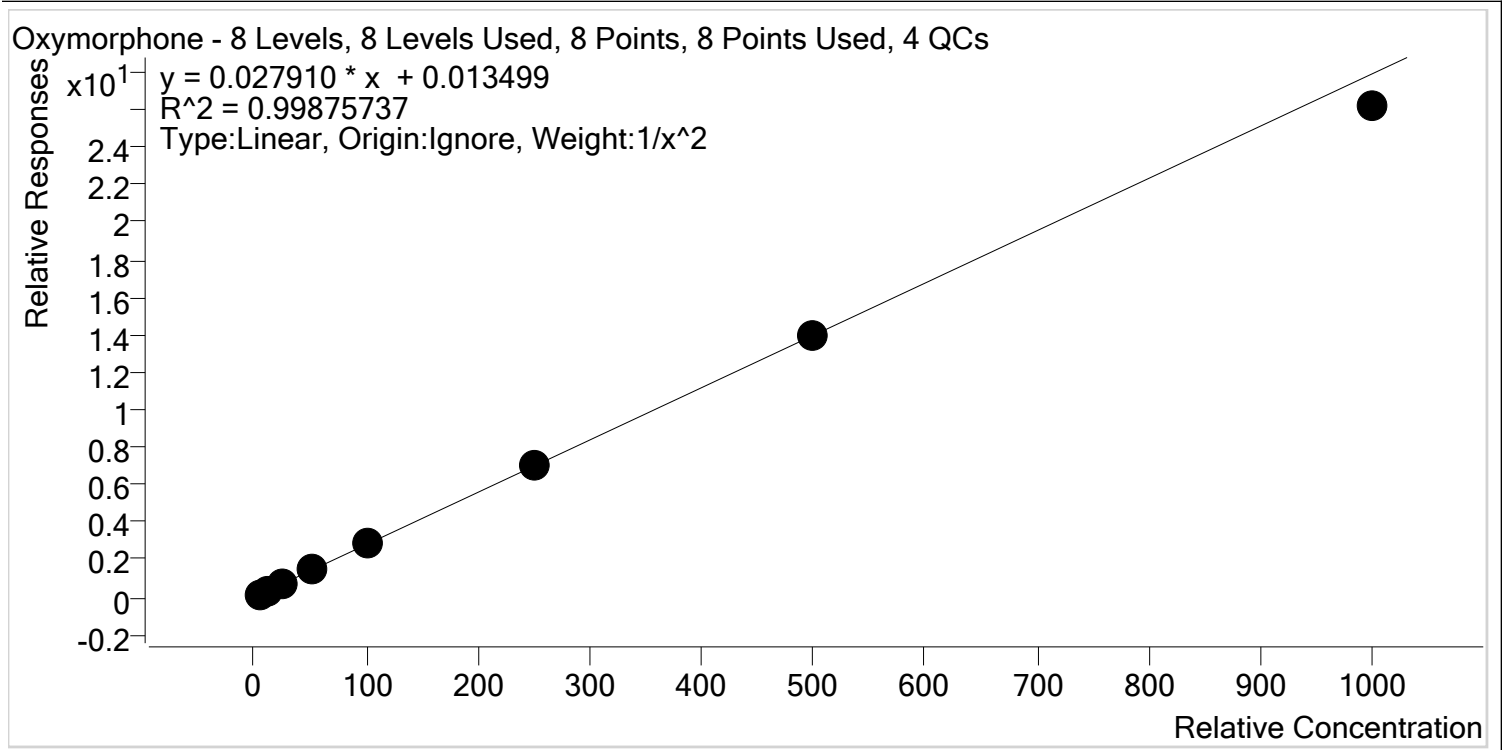


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.8
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.9
p1 Cal 3 -25ng	3	✓	25.0	25.4	101.7
p1 Cal 4-50ng	4	✓	50.0	52.0	104.1
p1 Cal 5-100ng	5	✓	100.0	100.5	100.5
p1 Cal 6-250ng	6	✓	250.0	249.8	99.9
p1 Cal 7-500ng	7	✓	500.0	495.1	99.0
p1 Cal 8-1000ng	8	✓	1000.0	950.8	95.1



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1
 Meth Removed.batch.bin
Last Cal. Update 11/12/2019 8:42 AM
Analyst Name ISP\datastor
Analyte Oxymorphone **Internal Standard** Oxymorphone-D3

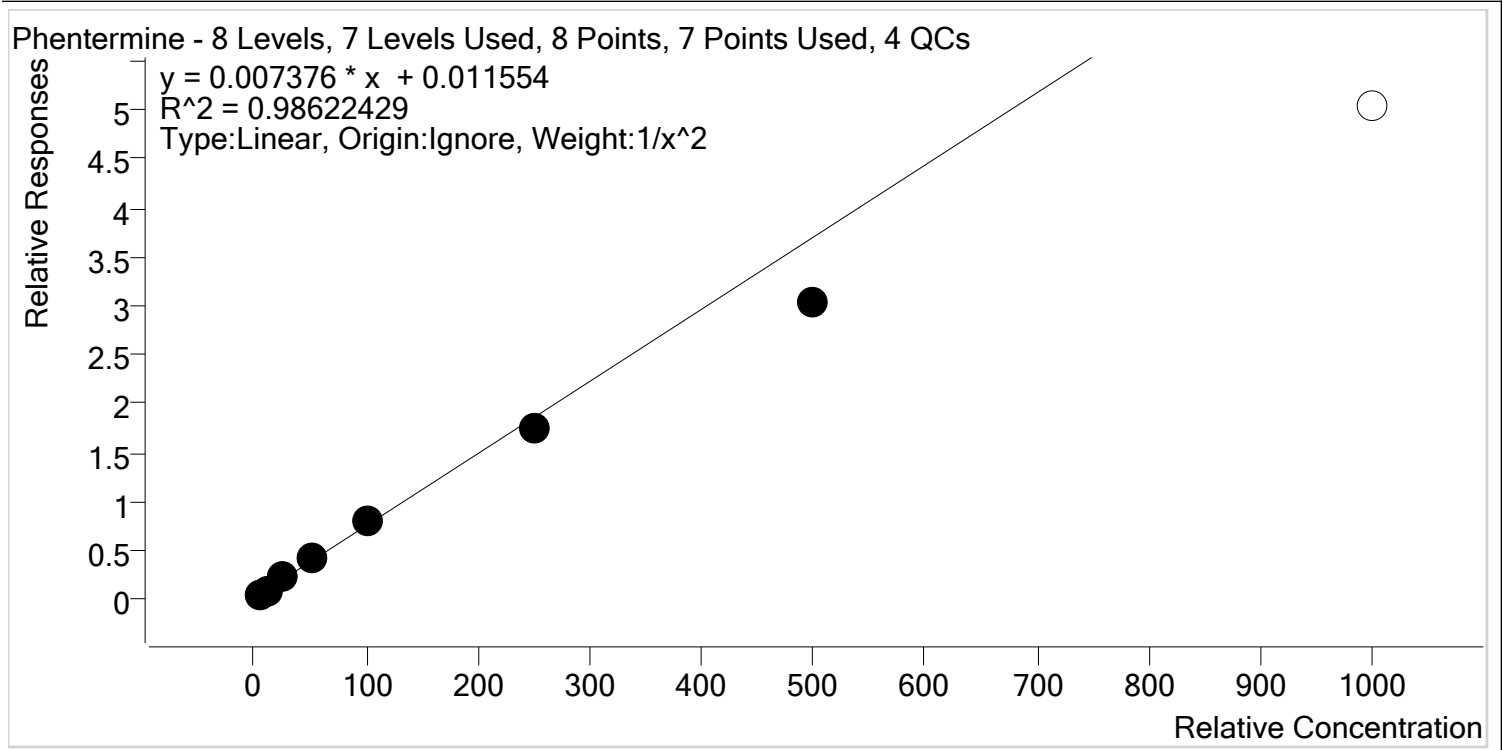


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.1
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.1
p1 Cal 3 -25ng	3	✓	25.0	25.8	103.0
p1 Cal 4-50ng	4	✓	50.0	51.5	102.9
p1 Cal 5-100ng	5	✓	100.0	99.4	99.4
p1 Cal 6-250ng	6	✓	250.0	252.5	101.0
p1 Cal 7-500ng	7	✓	500.0	498.3	99.7
p1 Cal 8-1000ng	8	✓	1000.0	938.0	93.8



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1
 Meth Removed.batch.bin
Last Cal. Update 11/12/2019 8:42 AM
Analyst Name ISP\datastor
Analyte Phentermine **Internal Standard** Phentermine-D5

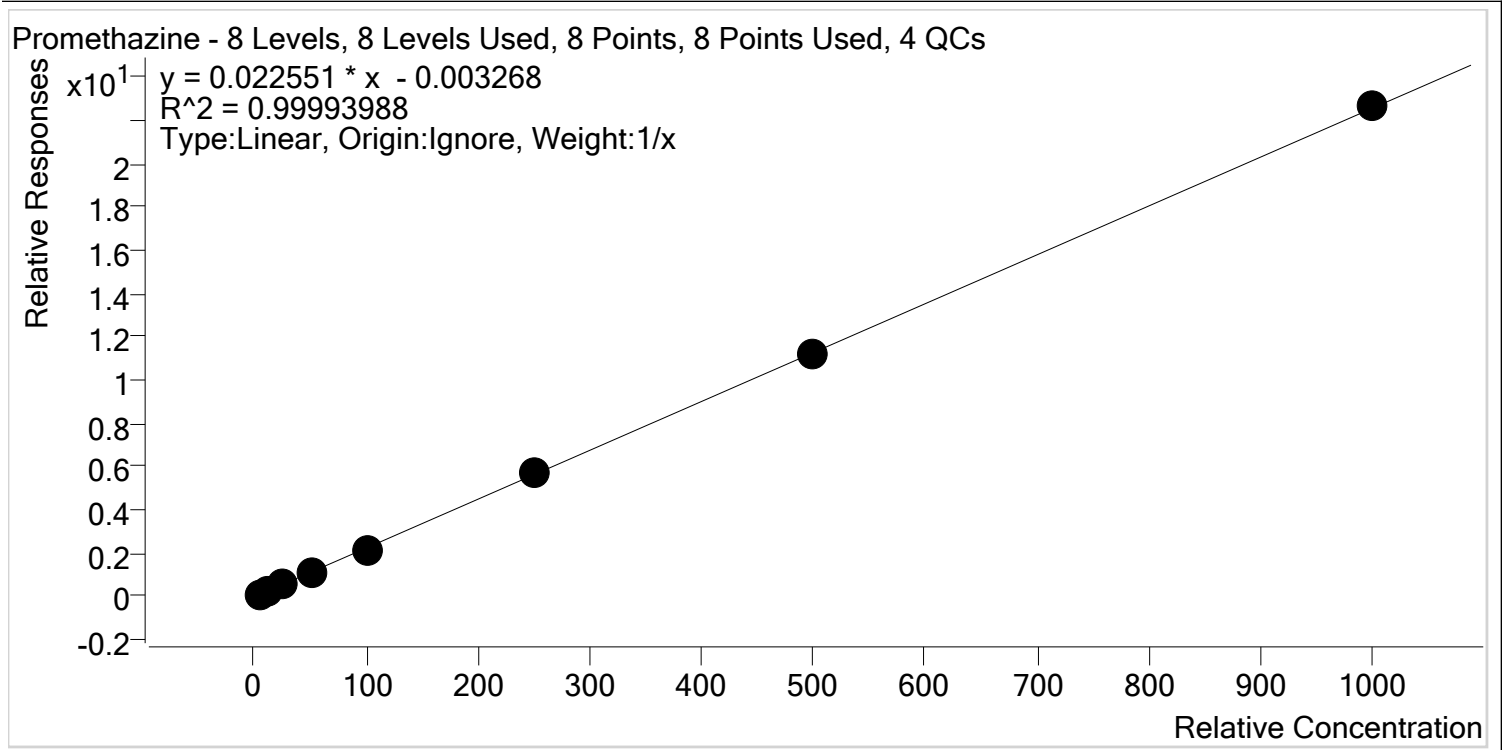


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.2
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.1
p1 Cal 3 -25ng	3	✓	25.0	28.0	112.1
p1 Cal 4-50ng	4	✓	50.0	54.4	108.8
p1 Cal 5-100ng	5	✓	100.0	104.9	104.9
p1 Cal 6-250ng	6	✓	250.0	236.2	94.5
p1 Cal 7-500ng	7	✓	500.0	412.5	82.5
p1 Cal 8-1000ng	8	x	1000.0	681.5	68.1



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1
 Meth Removed.batch.bin
Last Cal. Update 11/12/2019 8:42 AM
Analyst Name ISP\datastor
Analyte Promethazine **Internal Standard** Promethazine-D3

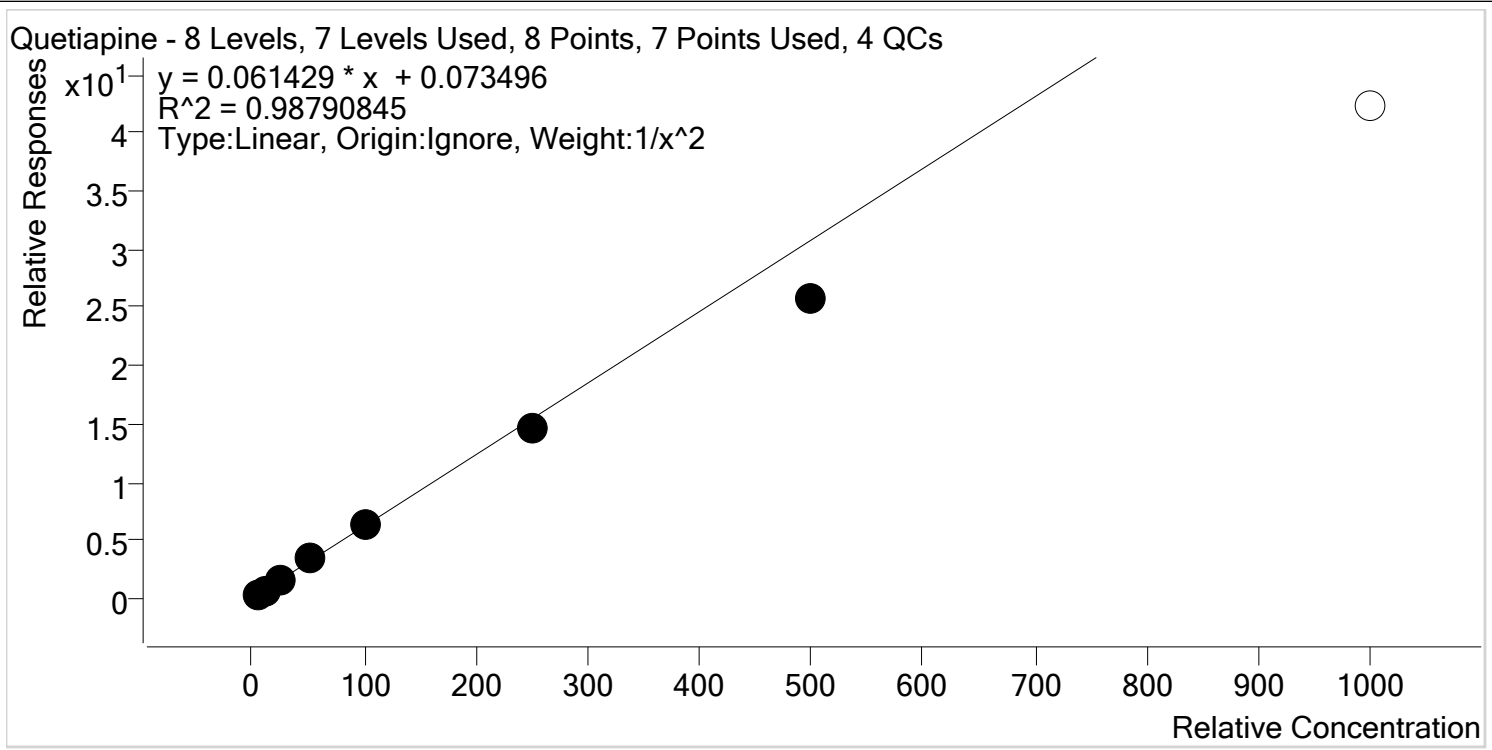


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.2	103.7
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.8
p1 Cal 3 -25ng	3	✓	25.0	24.4	97.7
p1 Cal 4-50ng	4	✓	50.0	50.3	100.7
p1 Cal 5-100ng	5	✓	100.0	97.9	97.9
p1 Cal 6-250ng	6	✓	250.0	250.9	100.4
p1 Cal 7-500ng	7	✓	500.0	497.0	99.4
p1 Cal 8-1000ng	8	✓	1000.0	1004.2	100.4



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1
 Meth Removed.batch.bin
Last Cal. Update 11/12/2019 8:42 AM
Analyst Name ISP\datastor
Analyte Quetiapine **Internal Standard** Quetiapine-D8

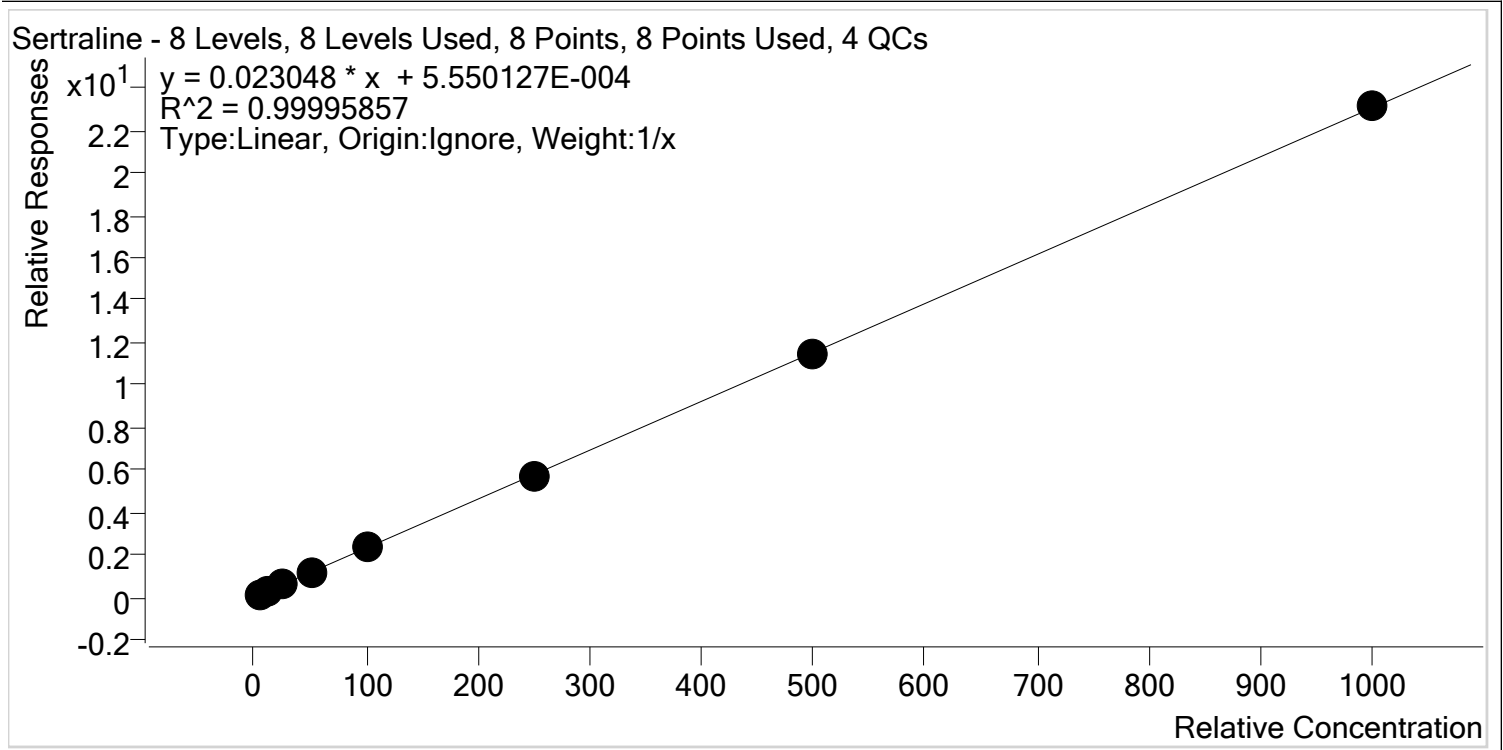


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.8
p1 Cal 2- 10ng	2	✓	10.0	10.3	103.0
p1 Cal 3 -25ng	3	✓	25.0	27.2	108.8
p1 Cal 4-50ng	4	✓	50.0	55.1	110.1
p1 Cal 5-100ng	5	✓	100.0	104.0	104.0
p1 Cal 6-250ng	6	✓	250.0	237.4	95.0
p1 Cal 7-500ng	7	✓	500.0	416.7	83.3
p1 Cal 8-1000ng	8	x	1000.0	686.9	68.7



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1
 Meth Removed.batch.bin
Last Cal. Update 11/12/2019 8:42 AM
Analyst Name ISP\datastor
Analyte Sertraline **Internal Standard** Sertraline-D3

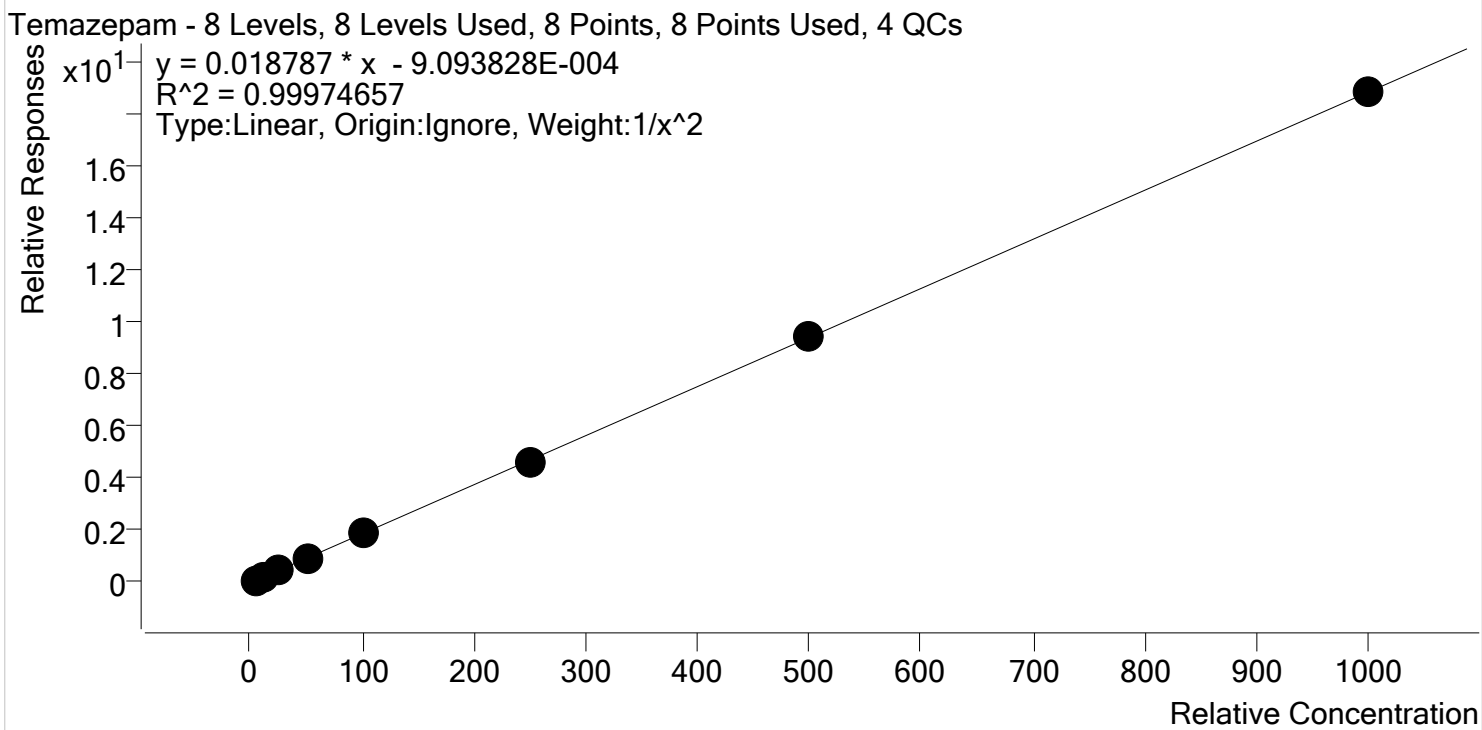


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.2	103.6
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.6
p1 Cal 3 -25ng	3	✓	25.0	24.2	96.7
p1 Cal 4-50ng	4	✓	50.0	49.8	99.6
p1 Cal 5-100ng	5	✓	100.0	98.8	98.8
p1 Cal 6-250ng	6	✓	250.0	248.4	99.4
p1 Cal 7-500ng	7	✓	500.0	500.1	100.0
p1 Cal 8-1000ng	8	✓	1000.0	1003.4	100.3



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1
 Meth Removed.batch.bin
Last Cal. Update 11/12/2019 8:42 AM
Analyst Name ISP\datastor
Analyte Temazepam **Internal Standard** Temazepam-D5

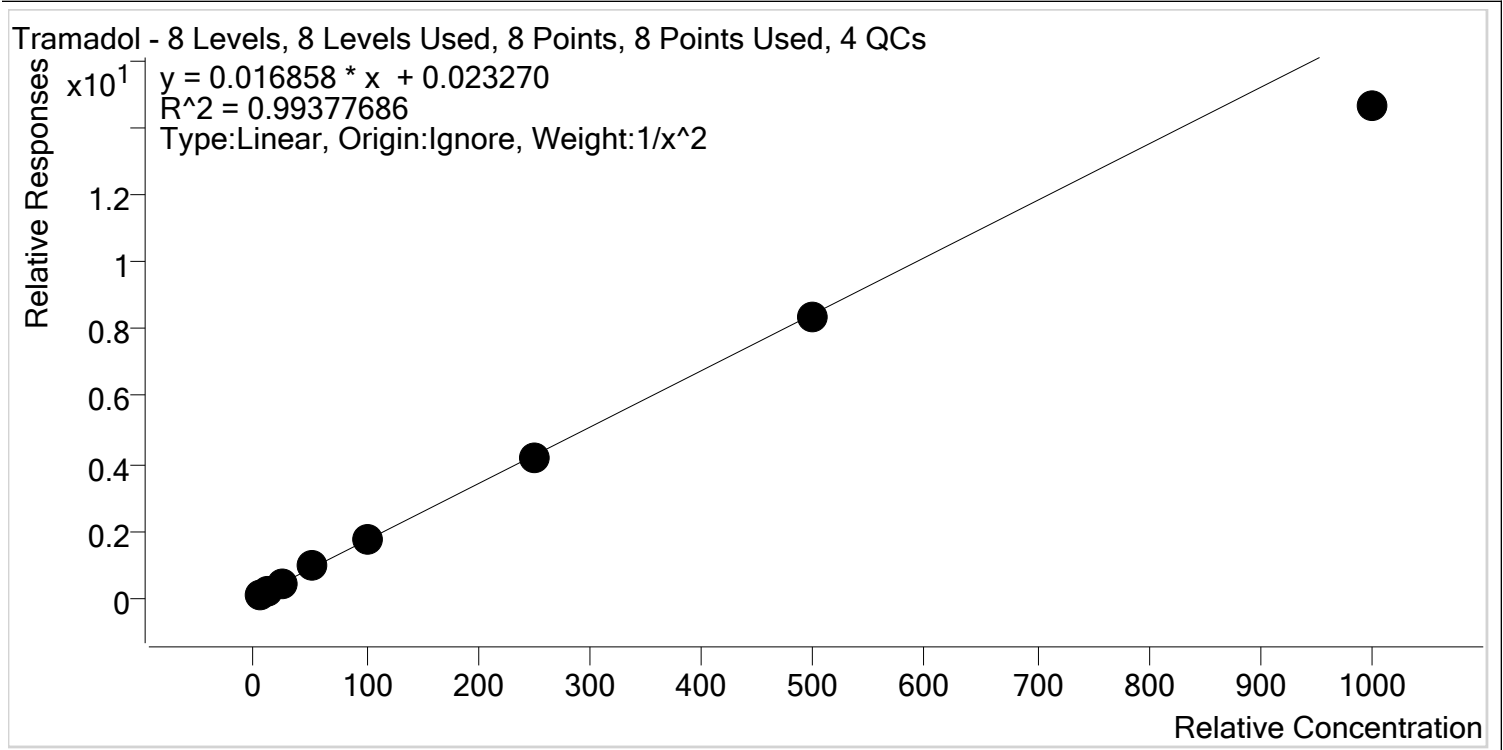


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.5
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.3
p1 Cal 3 -25ng	3	✓	25.0	24.5	98.1
p1 Cal 4-50ng	4	✓	50.0	51.4	102.7
p1 Cal 5-100ng	5	✓	100.0	99.3	99.3
p1 Cal 6-250ng	6	✓	250.0	248.3	99.3
p1 Cal 7-500ng	7	✓	500.0	504.0	100.8
p1 Cal 8-1000ng	8	✓	1000.0	999.8	100.0



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1 Meth Removed.batch.bin
Last Cal. Update 11/12/2019 8:42 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	4.8	96.5
p1 Cal 2- 10ng	2	✓	10.0	10.3	102.7
p1 Cal 3 -25ng	3	✓	25.0	26.6	106.3
p1 Cal 4-50ng	4	✓	50.0	54.3	108.6
p1 Cal 5-100ng	5	✓	100.0	103.3	103.3
p1 Cal 6-250ng	6	✓	250.0	243.6	97.4
p1 Cal 7-500ng	7	✓	500.0	492.3	98.5
p1 Cal 8-1000ng	8	✓	1000.0	866.8	86.7



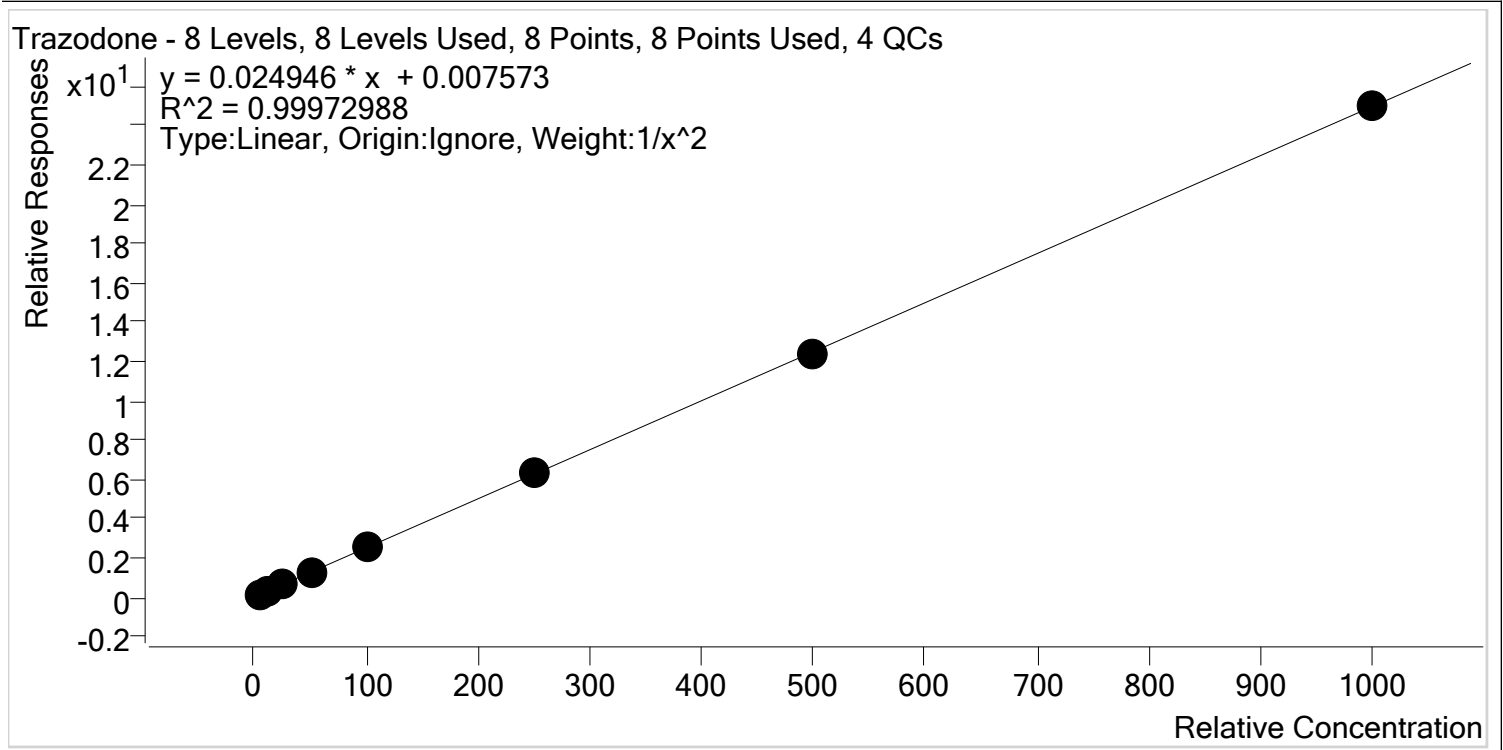
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1
Meth Removed.batch.bin

Last Cal. Update 11/12/2019 8:42 AM

Analyst Name ISP\datastor

Analyte Trazodone **Internal Standard** Trazodone-D6

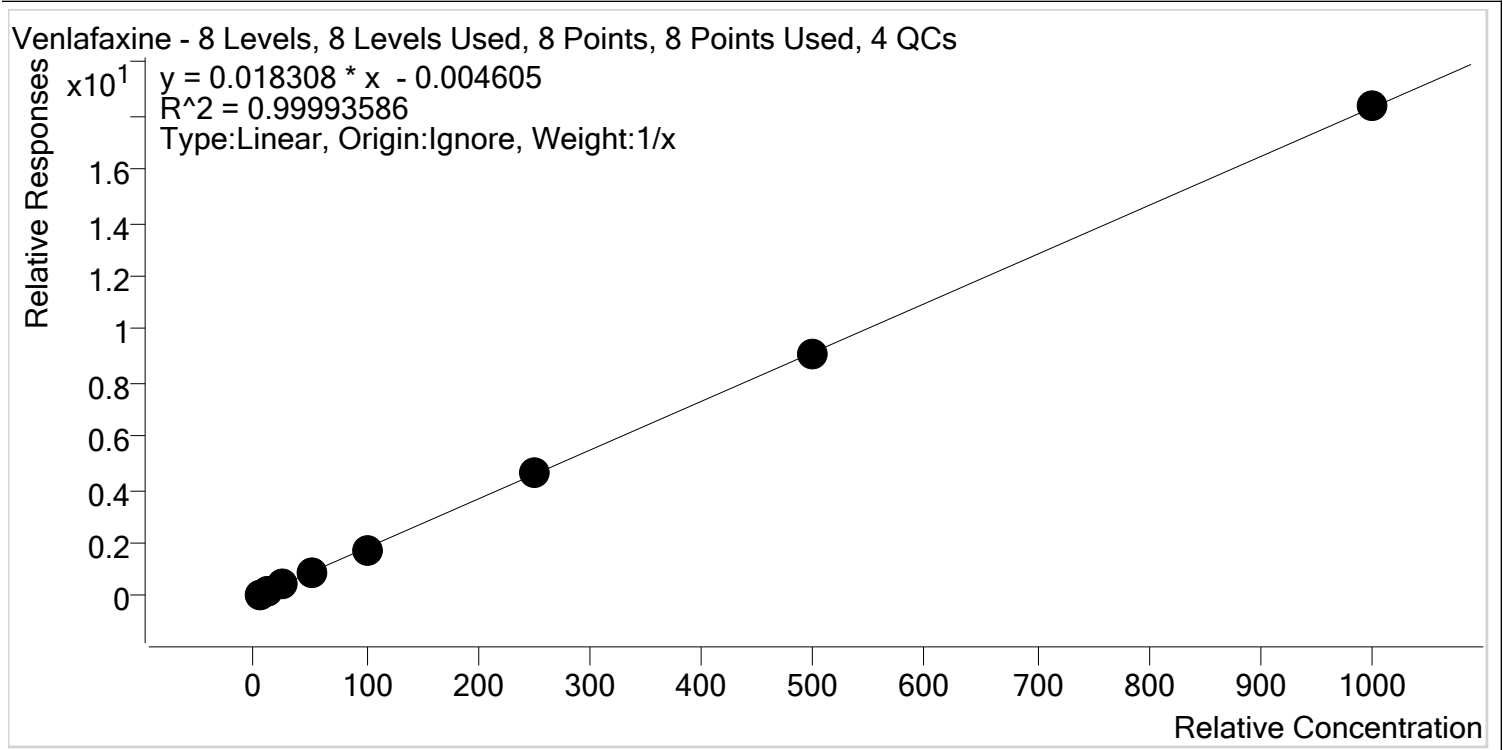


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.7
p1 Cal 2- 10ng	2	✓	10.0	9.8	98.4
p1 Cal 3 -25ng	3	✓	25.0	24.9	99.6
p1 Cal 4-50ng	4	✓	50.0	51.2	102.4
p1 Cal 5-100ng	5	✓	100.0	98.8	98.8
p1 Cal 6-250ng	6	✓	250.0	253.5	101.4
p1 Cal 7-500ng	7	✓	500.0	492.7	98.5
p1 Cal 8-1000ng	8	✓	1000.0	1000.8	100.1



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1
 Meth Removed.batch.bin
Last Cal. Update 11/12/2019 8:42 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	5.3	105.6
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.1
p1 Cal 3 -25ng	3	✓	25.0	24.4	97.6
p1 Cal 4-50ng	4	✓	50.0	49.3	98.6
p1 Cal 5-100ng	5	✓	100.0	97.5	97.5
p1 Cal 6-250ng	6	✓	250.0	250.5	100.2
p1 Cal 7-500ng	7	✓	500.0	500.0	100.0
p1 Cal 8-1000ng	8	✓	1000.0	1002.9	100.3

cg



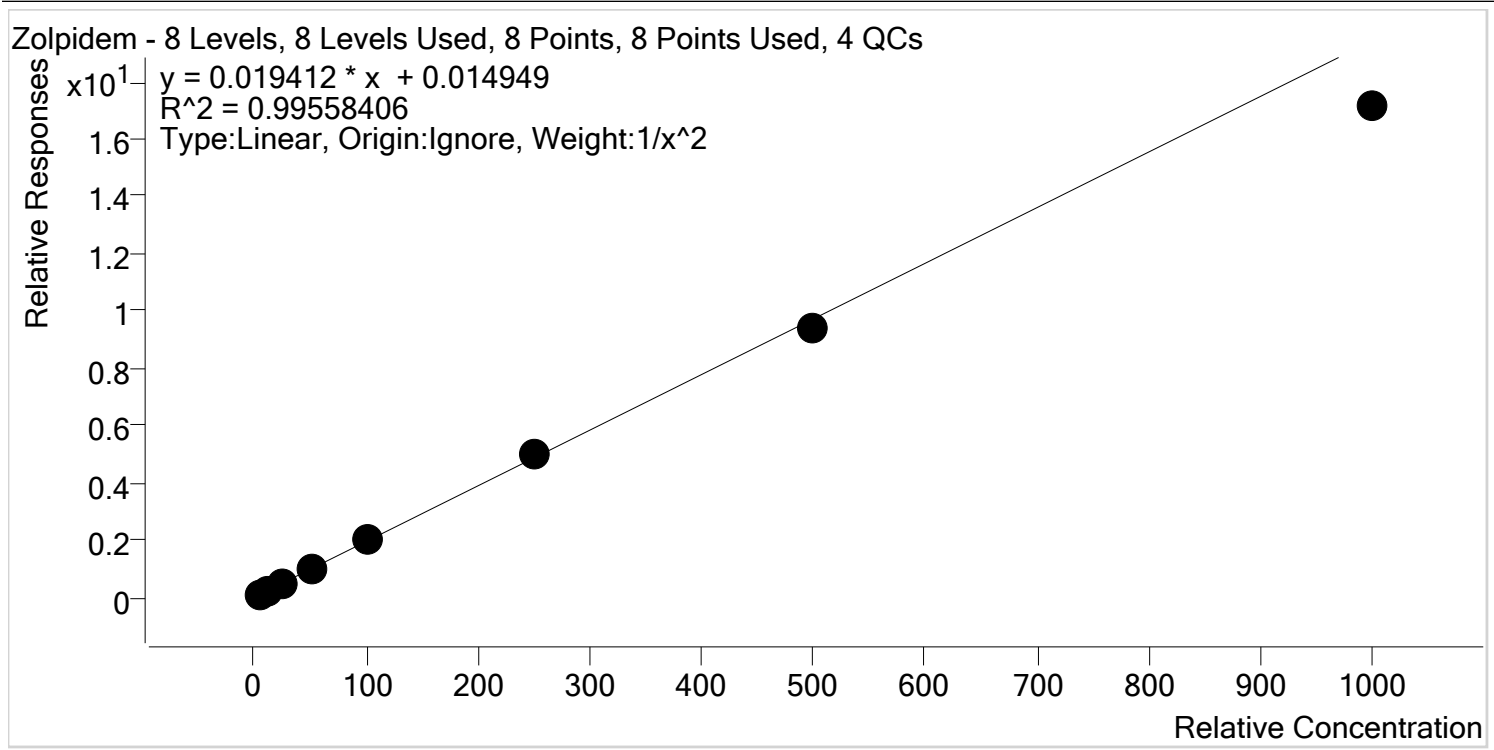
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1
Meth Removed.batch.bin

Last Cal. Update 11/12/2019 8:42 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	4.9	97.2
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.5
p1 Cal 3 -25ng	3	✓	25.0	26.0	104.0
p1 Cal 4-50ng	4	✓	50.0	53.1	106.2
p1 Cal 5-100ng	5	✓	100.0	102.9	102.9
p1 Cal 6-250ng	6	✓	250.0	256.5	102.6
p1 Cal 7-500ng	7	✓	500.0	482.1	96.4
p1 Cal 8-1000ng	8	✓	1000.0	882.3	88.2

AM #28 Multi-Drug Quant. Results



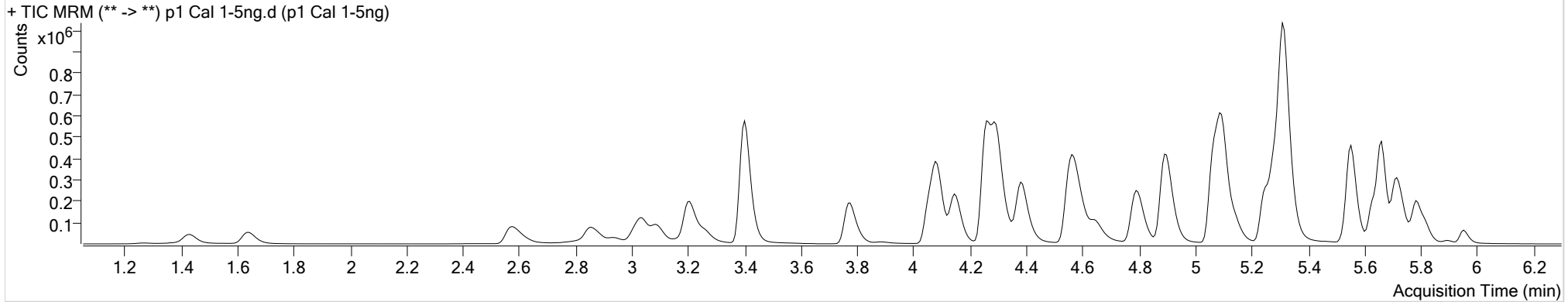
Batch results
Calibration Last Update

D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1 Meth Removed.batch.bin
11/13/2019 1:08:27 PM

Instrument Falco
Type Cal
Acq. Method MDQ P1 Combined 092319.m
Sample Position P1-A1
Injection Volume 2
Acq. Date-Time 11/6/2019 10:24:54 PM
Sample Info.

Data File p1 Cal 1-5ng.d
Sample p1 Cal 1-5ng
Operator
Comment

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.170	863	2284.46	83.4	1909.58	36443	0.5107 ng/ml
7-aminoclonazepam	4.285	12039	824.81	82.0	2696.16	90708	4.7488 ng/ml
a-hydroxyalprazolam	5.700	728	34.52	57.6	33.96	6223	5.4950 ng/ml
alpha-PVP	4.398	82388	∞	50.0	700.31	706689	5.1565 ng/ml
Alprazolam	5.777	17860	898.86	103.5	142.34	87161	5.4478 ng/ml
Amphetamine	3.095	103902	1319.42	53.8	1785.52	224295	4.7123 ng/ml
Benzoylcegonine	3.907	2060	529.78	6.9	∞	15502	4.7379 ng/ml
Buprenorphine	5.781	2541	89.87	17.1	20.59	157246	0.5023 ng/ml
Bupropion	4.813	97410	311.88	59.8	748.56	643209	4.3083 ng/ml
Carisoprodol	5.733	8615	438.98	60.3	93.38	82959	5.0305 ng/ml
Citalopram	5.249	67173	2440.35	41.6	753.82	588507	5.0894 ng/ml
Clonazepam	5.620	1730	417.40	40.1	1657.65	7077	4.8918 ng/ml
Cocaine	4.297	70635	6637.95	45.2	1490.67	1074461	5.1546 ng/ml
Codeine	2.630	8157	494.62	103.1	∞	66340	4.0753 ng/ml
Cyclobenzaprine	5.637	54095	75356.68	9.7	∞	393569	5.0042 ng/ml
Dextromethorphan	5.292	43866	4667.34	77.4	8663.79	386157	5.1685 ng/ml
Dextrorphan	4.154	20938	1260.57	209.8	12287.63	536952	5.0900 ng/ml
Diazepam	5.961	11982	286.07	87.0	484.64	113848	5.0061 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.608	21567	491.96	68.0	470.79	227620	4.7462 ng/ml
Diphenhydramine	5.320	153004	4627.42	33.6	158.96	2229587	5.3470 ng/ml
Doxylamine	4.581	175603	45823.49	97.8	13076.81	1424537	4.5456 ng/ml
EDDP	5.284	54249	194.13	42.0	2025.76	582483	5.0245 ng/ml
Fentanyl	5.113	5463	1588.80	72.3	3600.63	559890	0.5089 ng/ml
Fluoxetine	5.716	56586	974.88	8.9	408.43	481995	5.0951 ng/ml
Hydrocodone	3.065	19109	80.22	41.2	94.13	241736	4.8527 ng/ml
Hydromorphone	1.648	20664	359.78	75.5	402.25	154545	4.9266 ng/ml
Ketamine	4.074	61773	5900.30	37.9	228.24	544613	4.9178 ng/ml
Lamotrigine	4.315	5446	894.65	83.9	1992.83	544613	4.7156 ng/ml
Lorazepam	5.755	911	27.87	60.4	5.84 Low	7077	5.3871 ng/ml
Meprobamate	4.929	3026	239.96	26.7	29.38	28492	5.0605 ng/ml
Methadone	5.661	95442	4912.88	51.3	390.49	854736	5.1995 ng/ml
Metoprolol	4.346	15775	4121.69	96.0	2188.83	1397072	4.7977 ng/ml
Mirtazapine	4.650	133324	24073.53	48.8	3010.62	706689	4.9940 ng/ml
Mitragynine	5.241	14589	5038.99	40.1	38917.98	854736	5.1851 ng/ml
Morphine	1.273	4283	2005.23	20.8	388.08	7720	4.9243 ng/ml
Nordiazepam	5.908	2742	262.40	58.5	∞	17946	4.9739 ng/ml
Norfentanyl	4.108	8803	25693.06	39.5	58.51	777466	0.5230 ng/ml
Norhydrocodone	3.106	675	∞	34.8	84.20	56893	5.2927 ng/ml
Noroxycodone	2.957	13427	324.77	45.3	168.15	74407	4.9295 ng/ml
O-desmethyl-tramadol	3.408	137784	5347.15	6.0	220.27	1454030	5.0386 ng/ml
Oxazepam	5.758	946	7.50 Low	54.9 Low	3.69 Low	11719	4.0794 ng/ml
Oxycodone	2.881	33884	473.10	31.5	659.24	293753	4.9396 ng/ml
Oxymorphone	1.430	21415	337.21	46.7	306.55	142403	4.9045 ng/ml
Phentermine	3.812	27134	1189.41	2.4	24.60	576827	4.8110 ng/ml
Promethazine	5.556	93136	3343.04	31.0	990.66	819574	5.1841 ng/ml
Quetiapine	5.558	78252	2657.66	59.8	204006.45	212767	4.7907 ng/ml
Sertraline	5.791	34881	1465.28	89.1	3600.32	290779	5.1805 ng/ml
Temazepam	5.825	10592	235.08	33.3	29.69	113306	5.0243 ng/ml
Tramadol	4.273	146160	677.24	3.4	115.60	1397072	4.8256 ng/ml
Trazodone	5.146	87084	6754.33	80.2	∞	654120	5.0332 ng/ml
Venlafaxine	5.067	106493	311.66	37.1	253.35	1156210	5.2824 ng/ml
Zolpidem	4.912	123755	6349.52	30.6	6832.65	1131876	4.8622 ng/ml

AM #28 Multi-Drug Quant. Results



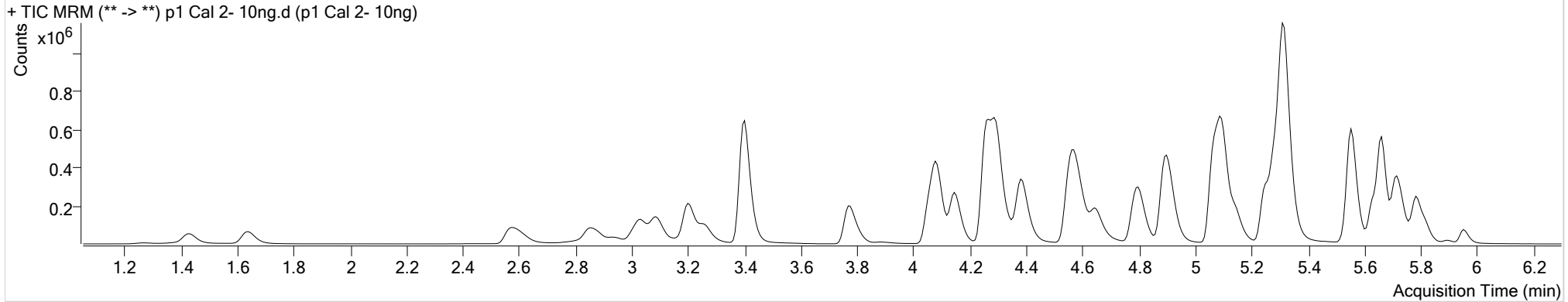
Batch results
Calibration Last Update

D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1 Meth Removed.batch.bin
11/12/2019 8:42:49 AM

Instrument Falco
Type Cal
Acq. Method MDQ P1 Combined 092319.m
Sample Position P1-B1
Injection Volume 2
Acq. Date-Time 11/6/2019 10:35:40 PM
Sample Info.

Data File p1 Cal 2- 10ng.d
Sample p1 Cal 2- 10ng
Operator
Comment

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.170	1713	489.73	72.6	∞	36364	0.9802 ng/ml
7-aminoclonazepam	4.285	24018	122.71	81.5	2603.67	92912	10.4634 ng/ml
a-hydroxyalprazolam	5.700	1177	∞	73.8	52.93	6887	8.3222 ng/ml
alpha-PVP	4.391	167780	2359.52	50.1	9273.62	729749	10.1020 ng/ml
Alprazolam	5.777	35719	364.93	104.3	250.51	92480	9.9919 ng/ml
Amphetamine	3.095	205076	1278.44	54.3	1402.49	230110	10.7107 ng/ml
Benzoylcegonine	3.914	3994	268.26	7.0	57.38	14741	11.2370 ng/ml
Buprenorphine	5.781	4889	48.30	18.2	47.46	161456	0.9862 ng/ml
Bupropion	4.813	199170	7907.61	58.7	428.71	672368	9.6508 ng/ml
Carisoprodol	5.733	17566	280.70	52.9	22.10	83305	10.1146 ng/ml
Citalopram	5.249	134665	9683.72	41.2	395.74	605119	10.0218 ng/ml
Clonazepam	5.620	3740	103.48	31.3	143.04	7589	10.0599 ng/ml
Cocaine	4.297	140860	6933.64	45.1	3079.59	1100885	10.0261 ng/ml
Codeine	2.630	16507	109.79	100.2	2411.34	67308	9.9183 ng/ml
Cyclobenzaprine	5.637	110173	429.30	9.6	244.10	399761	10.1036 ng/ml
Dextromethorphan	5.292	87708	258.99	79.5	320.86	402798	9.9758 ng/ml
Dextrorphan	4.147	42016	569.36	211.1	20708.02	560019	9.8971 ng/ml
Diazepam	5.961	23512	325.12	89.4	258.17	116329	9.8839 ng/ml

AM #28 Multi-Drug Quant. Results



CG

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.601	44376	1867.99	66.6	205.30	233743	10.5629 ng/ml
Diphenhydramine	5.320	305784	12566.65	33.6	891.03	2275636	10.1667 ng/ml
Doxylamine	4.581	354080	4744.78	97.0	22096.48	1478224	9.6548 ng/ml
EDDP	5.284	113947	298.64	42.2	581.00	626718	9.9586 ng/ml
Fentanyl	5.113	10959	58.45	73.7	47986.63	577305	0.9893 ng/ml
Fluoxetine	5.716	117945	5505.13	8.8	10844.37	499738	10.1803 ng/ml
Hydrocodone	3.065	39485	∞	40.6	199.47	254233	10.2595 ng/ml
Hydromorphone	1.648	40962	704.99	75.9	269.97	154484	10.2310 ng/ml
Ketamine	4.074	122367	7650.49	38.2	1129.95	565127	10.0400 ng/ml
Lamotrigine	4.315	11102	1321.85	77.5	1553.71	565127	10.7240 ng/ml
Lorazepam	5.755	1641	15.12	55.5	7.00 Low	7589	8.9152 ng/ml
Meprobamate	4.929	6126	154.38	26.0	84.36	28961	10.0491 ng/ml
Methadone	5.661	189838	5448.99	53.6	2480.44	883290	9.9212 ng/ml
Metoprolol	4.346	30582	∞	99.9	7956.73	1465714	10.1982 ng/ml
Mirtazapine	4.650	266916	8211.18	49.0	7635.17	729749	9.9905 ng/ml
Mitragynine	5.247	28649	45050.80	39.2	4309.88	883290	9.8810 ng/ml
Morphine	1.273	7911	2345.89	21.6	173.14	7373	10.0431 ng/ml
Norbuprenorphine	5.024	150	8.24 Low	68.4	32.17	5282	0.6199 ng/ml
Nordiazepam	5.901	5708	396.11	57.4	132.86	18597	10.0702 ng/ml
Norfentanyl	4.108	17588	78221.39	36.9	369.42	818160	0.9531 ng/ml
Norhydrocodone	3.100	1294	71.07	33.8	224.79	60550	9.0245 ng/ml
Noroxycodone	2.957	27021	352.27	45.9	11.67	76366	10.2290 ng/ml
O-desmethyl-tramadol	3.401	274745	1245.51	6.3	543.16	1513489	9.8936 ng/ml
Oxazepam	5.765	1792	19.61	75.1	22.61	11633	9.0089 ng/ml
Oxycodone	2.881	67672	766.60	31.3	707.98	301085	10.0931 ng/ml
Oxymorphone	1.430	42644	699.04	47.3	1813.41	142857	10.2117 ng/ml
Phentermine	3.805	51147	∞	2.5	47.50	594096	10.1055 ng/ml
Promethazine	5.556	203454	23637.91	31.0	1192.21	916884	9.9847 ng/ml
Quetiapine	5.558	155526	∞	62.6	6735.30	220271	10.2976 ng/ml
Sertraline	5.791	69561	1139.57	87.6	2146.82	296477	10.1557 ng/ml
Temazepam	5.825	21609	245.52	28.6	110.35	116352	9.9338 ng/ml
Tramadol	4.273	287761	25829.39	3.0	652.75	1465714	10.2658 ng/ml
Trazodone	5.146	173938	38276.84	79.7	968.76	687232	9.8424 ng/ml
Venlafaxine	5.067	215588	351.89	36.7	422.65	1206614	10.0107 ng/ml
Zolpidem	4.912	249920	55503.18	30.6	4582.44	1168448	10.2481 ng/ml

AM #28 Multi-Drug Quant. Results



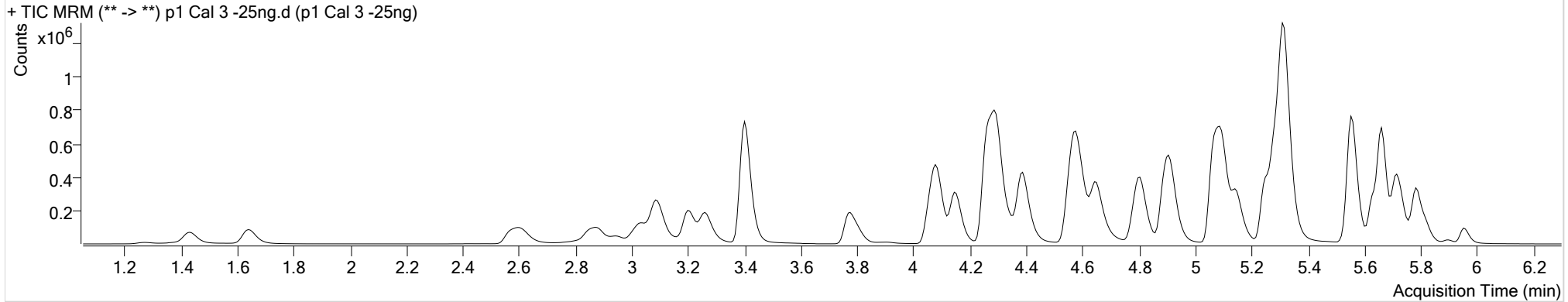
Batch results
Calibration Last Update

D:\MassHunter\Data\2019\AM 27-28\AM 27-28 Combo Run 110619 CS\QuantResults\MDQ P1 Meth Removed.batch.bin
11/12/2019 8:42:49 AM

Instrument Type Falco
Acq. Method MDQ P1 Combined 092319.m
Sample Position P1-C1
Injection Volume 2
Acq. Date-Time 11/6/2019 10:46:15 PM
Sample Info.

Data File p1 Cal 3 -25ng.d
Sample p1 Cal 3 -25ng
Operator
Comment

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.170	4062	879.00	72.7	26557.33	34106	2.4234 ng/ml
7-aminoclonazepam	4.285	53153	3987.50	80.7	12132.63	85283	27.0348 ng/ml
a-hydroxyalprazolam	5.700	2981	64.77	66.4	213.14	6451	23.5643 ng/ml
alpha-PVP	4.398	380433	∞	50.9	5019.70	674783	24.6716 ng/ml
Alprazolam	5.777	81818	2587.21	102.2	359.34	83789	24.7837 ng/ml
Amphetamine	3.095	452596	5912.96	54.9	43303.14	217218	27.4232 ng/ml
Benzoylcegonine	3.914	7429	4701.41	8.8	59.22	13730	23.9559 ng/ml
Buprenorphine	5.781	10795	∞	16.4	86.21	144815	2.5032 ng/ml
Bupropion	4.813	449841	56135.67	58.5	1043.92	618380	25.5640 ng/ml
Carisoprodol	5.733	36970	163.97	55.6	447.51	73293	24.0598 ng/ml
Citalopram	5.249	304209	31631.12	41.7	6964.04	552928	24.9294 ng/ml
Clonazepam	5.620	8520	191.90	33.6	501.67	6618	26.5952 ng/ml
Cocaine	4.297	318166	25629.50	45.2	20982.55	1003300	24.8390 ng/ml
Codeine	2.630	36879	8328.39	99.4	5486.44	63221	26.0721 ng/ml
Cyclobenzaprine	5.637	246028	5997.70	9.6	287.25	372397	24.3174 ng/ml
Dextromethorphan	5.292	197834	5445.40	78.6	294.36	369385	24.6462 ng/ml
Dextrorphan	4.154	95853	822.15	211.1	9663.98	514507	24.7420 ng/ml
Diazepam	5.961	55012	366.39	85.9	680.25	107429	25.4917 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.601	99216	862.53	67.3	8499.17	217028	26.9134 ng/ml
Diphenhydramine	5.320	681338	1505.42	33.9	11554.08	2074698	24.3902 ng/ml
Doxylamine	4.581	813608	31393.79	96.2	46599.88	1370045	25.2260 ng/ml
EDDP	5.284	275860	530.33	42.9	10542.08	619838	24.6044 ng/ml
Fentanyl	5.113	24533	∞	74.9	∞	538063	2.3753 ng/ml
Fluoxetine	5.716	265498	9487.44	9.1	38210.03	462334	24.6816 ng/ml
Hydrocodone	3.065	90290	∞	39.9	173.35	237804	26.1671 ng/ml
Hydromorphone	1.648	88099	1239.78	78.7	1420.20	141459	24.6633 ng/ml
Ketamine	4.074	280642	1232.42	38.0	3508.37	522371	25.9729 ng/ml
Lamotrigine	4.315	23841	1017.66	80.8	2474.77	522371	26.9166 ng/ml
Lorazepam	5.755	3778	∞	61.7	25.59	6618	23.2169 ng/ml
Meprobamate	4.929	12951	95.25	25.8	84.33	26314	23.3415 ng/ml
Methadone	5.661	436157	18105.06	52.8	15383.43	815955	24.5360 ng/ml
Metoprolol	4.346	69702	263306.44	98.0	5783.92	1351044	27.5313 ng/ml
Mirtazapine	4.650	603957	91904.29	48.7	16628.68	674783	24.9226 ng/ml
Mitragynine	5.247	60013	3526.05	37.5	∞	815955	22.4464 ng/ml
Morphine	1.273	18134	618.55	21.8	3832.61	6744	26.0035 ng/ml
Norbuprenorphine	5.030	322	44.12	64.4	16.91	4718	2.4358 ng/ml
Nordiazepam	5.901	13030	757.78	55.2	547.31	17010	25.2490 ng/ml
Norfentanyl	4.108	40347	10306.14	37.8	1229.74	754811	2.3041 ng/ml
Norhydrocodone	3.106	3373	145.78	32.7	54.32	57080	23.8432 ng/ml
Noroxycodone	2.957	59573	874.06	48.1	1607.75	71216	24.9827 ng/ml
O-desmethyl-tramadol	3.408	620130	21441.18	6.2	435.70	1394020	24.6271 ng/ml
Oxazepam	5.758	4584	83.46	64.9	31.57	10604	27.7073 ng/ml
Oxycodone	2.881	156172	2658.57	31.8	1665.16	283689	25.4362 ng/ml
Oxymorphone	1.430	95736	∞	47.4	806.84	130743	25.7522 ng/ml
Phentermine	3.805	119801	2113.38	2.4	188.39	549000	28.0183 ng/ml
Promethazine	5.556	430686	32390.00	30.6	∞	786262	24.4349 ng/ml
Quetiapine	5.558	350270	15661.97	61.1	∞	200878	27.1892 ng/ml
Sertraline	5.791	148219	965.46	91.4	1487.37	265765	24.1732 ng/ml
Temazepam	5.825	48267	421.02	29.3	240.09	104990	24.5190 ng/ml
Tramadol	4.273	636959	65141.58	3.4	187.65	1351044	26.5863 ng/ml
Trazodone	5.146	391964	139723.76	78.7	46233.37	623211	24.9088 ng/ml
Venlafaxine	5.067	492132	981.65	36.4	601.61	1112621	24.4112 ng/ml
Zolpidem	4.912	561416	43002.99	30.6	950.55	1080427	25.9975 ng/ml

AM #28 Multi-Drug Quant. Results



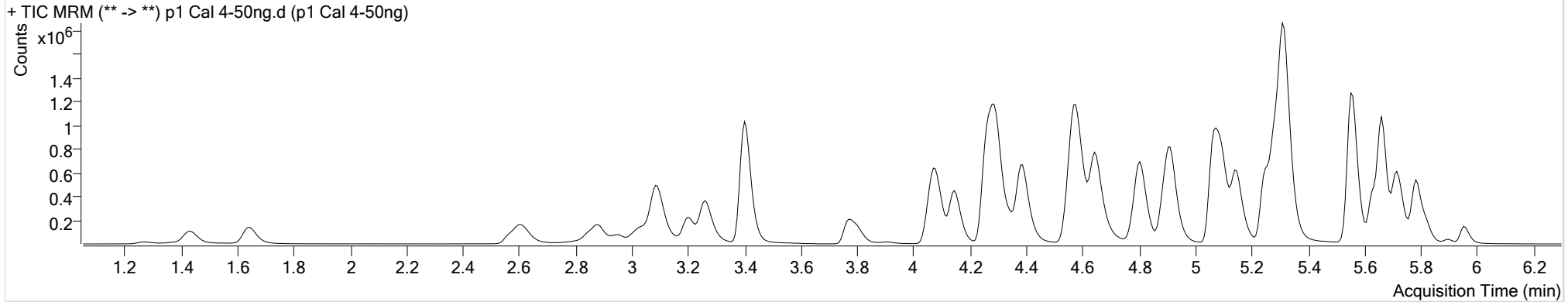
Batch results
Calibration Last Update

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11/12/2019 8:42:49 AM

Instrument Falco
Type Cal
Acq. Method MDQ P1 Combined 092319.m
Sample Position P1-D1
Injection Volume 2
Acq. Date-Time 11/6/2019 10:56:49 PM
Sample Info.

Data File p1 Cal 4-50ng.d
Sample p1 Cal 4-50ng
Operator
Comment

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.170	8739	4162.30	70.2	13688.04	36806	4.7953 ng/ml
7-aminoclonazepam	4.285	109496	796718.95	80.6	∞	86527	56.2120 ng/ml
a-hydroxyalprazolam	5.700	6307	263.04	73.1	192.65	6715	48.5405 ng/ml
alpha-PVP	4.391	824480	52164.98	50.3	1242.70	718867	50.1183 ng/ml
Alprazolam	5.777	172208	526.80	104.5	1226.93	88399	49.1331 ng/ml
Amphetamine	3.095	913923	5834.20	54.8	10952.48	226677	54.7294 ng/ml
Benzoylcegonine	3.907	15848	360.84	7.4	140.63	14633	49.4681 ng/ml
Buprenorphine	5.781	23168	342.80	15.3	∞	152397	5.1587 ng/ml
Bupropion	4.807	985649	4347.69	58.9	935.46	667467	53.2126 ng/ml
Carisoprodol	5.733	79280	14373.34	53.9	99.86	77285	48.8293 ng/ml
Citalopram	5.249	646237	18921.16	41.1	8910.07	586047	50.0697 ng/ml
Clonazepam	5.620	19057	1932.89	34.0	616.12	7705	51.2746 ng/ml
Cocaine	4.291	674457	75920.06	45.4	25293.56	1062510	49.7133 ng/ml
Codeine	2.630	76436	4633.80	100.6	∞	65612	53.8614 ng/ml
Cyclobenzaprine	5.637	529729	2392.80	9.4	247.91	390178	50.0455 ng/ml
Dextromethorphan	5.292	419729	848.24	79.3	∞	386018	50.1141 ng/ml
Dextrorphan	4.147	208873	33160.43	209.3	26396.03	545774	50.9447 ng/ml
Diazepam	5.961	114950	3029.92	89.4	942.96	113051	50.9066 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.601	209855	19638.31	67.8	15389.44	232110	54.2529 ng/ml
Diphenhydramine	5.320	1463239	67600.24	33.9	13550.14	2191527	49.2609 ng/ml
Doxylamine	4.574	1785381	45339.41	96.5	∞	1465131	52.6805 ng/ml
EDDP	5.284	571893	2007.78	42.2	6618.95	626181	50.6568 ng/ml
Fentanyl	5.113	54374	570.01	74.3	156.36	574843	4.9270 ng/ml
Fluoxetine	5.716	565232	36268.74	9.1	75132.99	480575	50.4865 ng/ml
Hydrocodone	3.065	192315	∞	40.2	45.38	249291	53.9426 ng/ml
Hydromorphone	1.648	198270	906.44	75.6	3061.78	150202	52.8000 ng/ml
Ketamine	4.074	600787	2780.10	38.0	822.17	557206	52.8477 ng/ml
Lamotrigine	4.308	50191	9632.15	79.7	∞	557206	54.5965 ng/ml
Lorazepam	5.755	8483	561.59	51.4	26.00	7705	44.5948 ng/ml
Meprobamate	4.929	29616	∞	25.4	996.68	28137	49.8850 ng/ml
Methadone	5.661	937001	30702.18	52.6	1242.49	862132	49.7911 ng/ml
Metoprolol	4.346	146649	∞	97.8	5693.42	1443594	55.7337 ng/ml
Mirtazapine	4.650	1313347	87489.26	48.4	∞	718867	51.2145 ng/ml
Mitragynine	5.247	146958	15349.39	38.7	43393.77	862132	52.0633 ng/ml
Morphine	1.273	38720	7308.63	21.2	408.67	7228	52.3605 ng/ml
Norbuprenorphine	5.024	659	54.22	67.2	25.32	5156	5.1623 ng/ml
Nordiazepam	5.901	28559	1669.09	55.0	481.95	18650	50.5521 ng/ml
Norfentanyl	4.108	89249	16410.76	36.7	3597.22	799804	4.7619 ng/ml
Norhydrocodone	3.106	7623	194.58	37.6	175.31	61540	49.2899 ng/ml
Noroxycodone	2.957	127232	1341.34	47.0	334.50	74271	51.7760 ng/ml
O-desmethyl-tramadol	3.408	1345007	2706.53	6.2	703.68	1482347	50.5051 ng/ml
Oxazepam	5.758	9050	88.81	73.6	36.05	11634	50.9296 ng/ml
Oxycodone	2.881	334073	1658.84	31.3	4379.70	299607	52.0268 ng/ml
Oxymorphone	1.430	196058	2101.45	47.4	1232.21	135222	51.4651 ng/ml
Phentermine	3.805	240211	6968.70	2.4	∞	581885	54.4007 ng/ml
Promethazine	5.556	962516	71854.27	30.4	2712.22	850495	50.3294 ng/ml
Quetiapine	5.558	745892	2351.46	60.1	38467.44	215818	55.0658 ng/ml
Sertraline	5.784	309152	14857.79	91.5	948.64	269136	49.8139 ng/ml
Temazepam	5.825	107334	1733.22	29.0	286.39	111344	51.3595 ng/ml
Tramadol	4.267	1354523	55405.84	3.3	862.21	1443594	54.2792 ng/ml
Trazodone	5.146	861160	∞	79.2	724.81	670275	51.1994 ng/ml
Venlafaxine	5.067	1074157	3556.80	36.8	1128.45	1195984	49.3084 ng/ml
Zolpidem	4.912	1220746	∞	30.8	29616.93	1167702	53.0832 ng/ml

AM #28 Multi-Drug Quant. Results



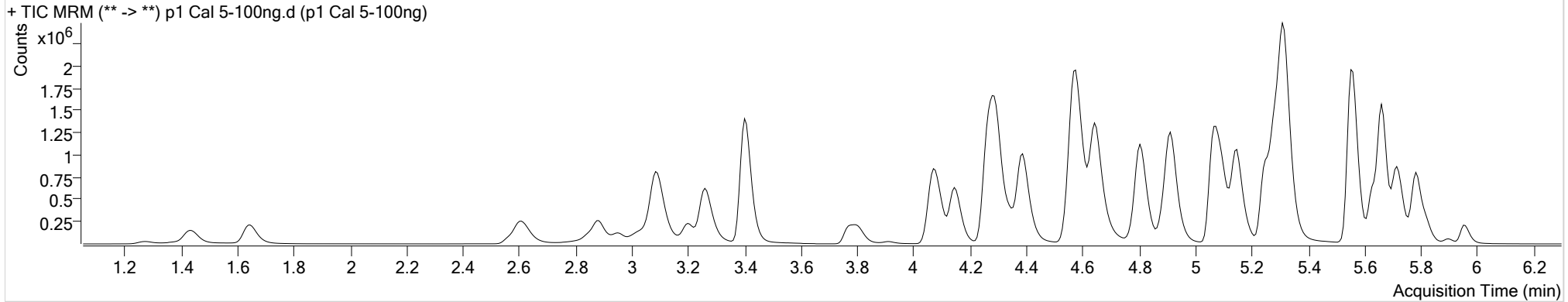
Batch results
Calibration Last Update

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11/12/2019 8:42:49 AM

Instrument Falco
Type Cal
Acq. Method MDQ P1 Combined 092319.m
Sample Position P1-E1
Injection Volume 2
Acq. Date-Time 11/6/2019 11:07:23 PM
Sample Info.

Data File p1 Cal 5-100ng.d
Sample p1 Cal 5-100ng
Operator
Comment

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.170	15361	3257.82	69.2	424.12	32306	9.5666 ng/ml
7-aminoclonazepam	4.285	178559	25453.62	82.0	20304.44	78129	102.5527 ng/ml
a-hydroxyalprazolam	5.700	11744	87.86	70.0	∞	6387	95.6261 ng/ml
alpha-PVP	4.391	1504056	101554.38	50.4	67627.69	672961	97.5996 ng/ml
Alprazolam	5.777	309301	701.39	104.1	943.50	80370	96.7580 ng/ml
Amphetamine	3.095	1429366	25961.58	59.6	45920.06	216239	90.8668 ng/ml
Benzoylcegonine	3.914	29700	953.87	7.2	∞	13769	100.0258 ng/ml
Buprenorphine	5.781	39710	1466.54	16.3	954.97	139036	9.7367 ng/ml
Bupropion	4.807	1803212	111698.14	58.0	18863.65	627014	104.8444 ng/ml
Carisoprodol	5.733	144488	2332.85	55.2	132.57	73209	93.8553 ng/ml
Citalopram	5.249	1149775	600.98	41.4	803.55	531831	98.2645 ng/ml
Clonazepam	5.620	33654	1139.85	33.4	1425.72	6482	107.8517 ng/ml
Cocaine	4.291	1208401	102615.39	45.2	43893.29	969043	97.6542 ng/ml
Codeine	2.630	134490	128.50	101.0	6867.97	59441	106.3034 ng/ml
Cyclobenzaprine	5.637	942935	129471.50	9.6	∞	355017	97.9716 ng/ml
Dextromethorphan	5.292	740357	35492.89	79.4	27889.95	348675	97.9345 ng/ml
Dextrorphan	4.147	379273	720.60	212.2	40345.97	513845	98.3576 ng/ml
Diazepam	5.961	202797	∞	87.3	634.82	103856	98.0311 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.601	374050	26151.62	66.9	16868.69	221041	102.4584 ng/ml
Diphenhydramine	5.320	2572784	63713.45	33.4	14898.45	1964557	96.3170 ng/ml
Doxylamine	4.574	3299551	12383.50	96.1	59927.76	1406989	102.1875 ng/ml
EDDP	5.284	1051186	40725.70	42.2	10760.53	597325	97.7553 ng/ml
Fentanyl	5.113	100343	38942.97	73.3	385.00	539172	9.6933 ng/ml
Fluoxetine	5.716	1029825	95186.86	9.0	495.35	450587	98.0474 ng/ml
Hydrocodone	3.065	341769	∞	41.9	∞	241375	99.6351 ng/ml
Hydromorphone	1.648	348797	1284.33	76.5	3905.34	138382	101.2461 ng/ml
Ketamine	4.074	1089092	5042.99	38.0	37812.82	522261	102.8808 ng/ml
Lamotrigine	4.315	84650	1636.83	80.7	17981.93	522261	99.4518 ng/ml
Lorazepam	5.755	15813	694.11	53.5	521.70	6482	98.5849 ng/ml
Meprobamate	4.929	53462	4621.49	24.7	357.71	26127	96.9466 ng/ml
Methadone	5.661	1714822	2561.07	52.4	5606.82	798232	98.3269 ng/ml
Metoprolol	4.346	254653	13608.81	96.0	7786.19	1360794	103.9930 ng/ml
Mirtazapine	4.650	2385241	412403.28	48.4	7130.73	672961	99.6672 ng/ml
Mitragynine	5.247	259713	20943.70	39.5	4812.16	798232	99.4031 ng/ml
Morphine	1.273	68678	751.08	21.4	2309.95	6690	100.8465 ng/ml
Norbuprenorphine	5.024	1166	168.99	74.7	72.01	4813	10.3849 ng/ml
Nordiazepam	5.901	51040	12087.98	57.8	689.34	17280	97.5808 ng/ml
Norfentanyl	4.108	162837	46823.88	37.2	1060.37	740319	9.3434 ng/ml
Norhydrocodone	3.106	14465	254.60	36.2	130.54	57902	98.7693 ng/ml
Noroxycodone	2.957	226274	618.57	47.0	6821.42	69490	98.9438 ng/ml
O-desmethyl-tramadol	3.408	2453831	40951.03	6.2	991.77	1389835	98.5239 ng/ml
Oxazepam	5.758	15952	170.44	72.5	50.32	10794	97.9691 ng/ml
Oxycodone	2.881	621133	3254.89	31.4	20510.65	289750	100.4779 ng/ml
Oxymorphone	1.437	339877	∞	49.6	∞	121897	99.4167 ng/ml
Phentermine	3.805	428828	5699.25	2.3	527.86	546293	104.8562 ng/ml
Promethazine	5.556	1802058	49168.27	30.0	4371.51	817718	97.8683 ng/ml
Quetiapine	5.558	1287007	47401.25	61.0	104493.26	199142	104.0110 ng/ml
Sertraline	5.791	534550	1527.11	90.1	95629.65	234682	98.8015 ng/ml
Temazepam	5.825	190318	867.79	29.2	647.56	102079	99.2871 ng/ml
Tramadol	4.267	2402401	102461.88	3.4	1759.07	1360794	103.3449 ng/ml
Trazodone	5.146	1563588	2690.91	79.4	56177.67	632144	98.8500 ng/ml
Venlafaxine	5.067	1961589	58325.79	36.3	5832.94	1102154	97.4643 ng/ml
Zolpidem	4.912	2222354	525504.71	31.1	71800.95	1104554	102.8743 ng/ml

AM #28 Multi-Drug Quant. Results



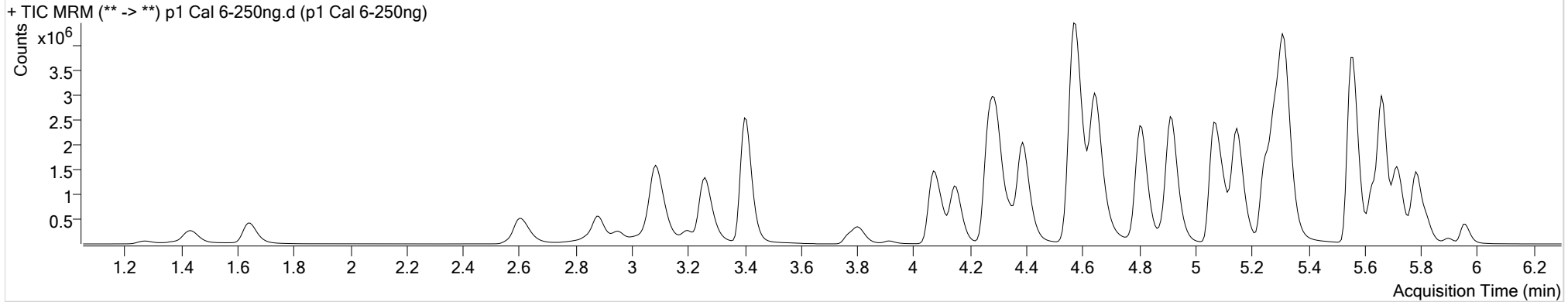
Batch results
Calibration Last Update

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11/12/2019 8:42:49 AM

Instrument Falco
Type Cal
Acq. Method MDQ P1 Combined 092319.m
Sample Position P1-F1
Injection Volume 2
Acq. Date-Time 11/6/2019 11:17:57 PM
Sample Info.

Data File p1 Cal 6-250ng.d
Sample p1 Cal 6-250ng
Operator
Comment

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.170	37061	115248.42	71.2	26155.27	29318	25.3740 ng/ml
7-aminoclonazepam	4.285	317111	1955.95	83.1	21229.23	61170	234.2470 ng/ml
a-hydroxyalprazolam	5.700	28130	310.28	66.5	153.33	5766	254.7483 ng/ml
alpha-PVP	4.391	3542055	90509.77	50.5	59337.27	625022	247.3703 ng/ml
Alprazolam	5.777	671565	588.97	105.4	∞	68705	245.2729 ng/ml
Amphetamine	3.088	3190818	24877.03	54.4	34861.74	200234	221.5704 ng/ml
Benzoylcegonine	3.914	75093	304.64	7.8	383.01	13956	251.7910 ng/ml
Buprenorphine	5.781	83738	2683.86	16.6	817.84	112778	25.3951 ng/ml
Bupropion	4.813	4297005	10251.44	58.2	51677.79	601461	262.3561 ng/ml
Carisoprodol	5.733	317996	14533.25	52.7	428.46	58509	258.2864 ng/ml
Citalopram	5.249	2458385	∞	41.9	∞	448057	249.5474 ng/ml
Clonazepam	5.620	78336	905.72	33.5	2725.00	6383	255.1909 ng/ml
Cocaine	4.297	2682328	225155.49	44.1	57619.48	838645	250.4601 ng/ml
Codeine	2.623	288990	316.49	101.0	10154.16	53452	256.5157 ng/ml
Cyclobenzaprine	5.637	2040264	76014.91	9.6	519.63	298580	252.1632 ng/ml
Dextromethorphan	5.292	1573238	36020.75	80.0	47082.93	291426	249.1059 ng/ml
Dextrorphan	4.154	888296	∞	211.4	75420.72	473412	250.2120 ng/ml
Diazepam	5.961	459069	3941.54	87.2	∞	92974	248.3346 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.601	832424	65597.95	67.3	72412.66	213469	237.4715 ng/ml
Diphenhydramine	5.320	5581470	240551.12	33.6	∞	1666170	245.8802 ng/ml
Doxylamine	4.574	8104711	12565.63	96.0	18092.21	1365123	260.0368 ng/ml
EDDP	5.284	2571360	101467.94	42.6	26409.99	571387	250.2239 ng/ml
Fentanyl	5.113	243613	32863.87	75.2	5782.23	506812	25.0351 ng/ml
Fluoxetine	5.716	2273627	174028.51	8.9	983628.94	394436	247.1883 ng/ml
Hydrocodone	3.058	813905	326.71	40.8	∞	225481	255.1653 ng/ml
Hydromorphone	1.648	778293	∞	76.3	∞	125268	250.2539 ng/ml
Ketamine	4.074	2521037	77809.62	38.3	1377.46	492026	253.8283 ng/ml
Lamotrigine	4.315	163388	13565.90	81.3	153429.80	492026	205.3413 ng/ml
Lorazepam	5.755	40934	∞	54.1	∞	6383	258.8233 ng/ml
Meprobamate	4.935	122832	426.76	24.9	∞	23287	249.8668 ng/ml
Methadone	5.661	3977997	701878.97	51.3	55615.87	723853	251.3882 ng/ml
Metoprolol	4.346	531753	∞	95.9	∞	1296379	229.8161 ng/ml
Mirtazapine	4.650	5587444	24538.35	48.3	13245.74	625022	251.8782 ng/ml
Mitragynine	5.247	629912	45670.81	39.3	72547.35	723853	265.9194 ng/ml
Morphine	1.273	164371	748.77	21.5	5898.19	6324	256.1905 ng/ml
Norbuprenorphine	5.024	2703	48.75	76.2	64.20	4793	25.0904 ng/ml
Nordiazepam	5.901	118665	5467.86	56.9	2926.95	15874	247.0816 ng/ml
Norfentanyl	4.108	389016	49519.22	37.4	4333.31	659677	24.9755 ng/ml
Norhydrocodone	3.106	35112	1014.61	36.0	247.58	53141	260.1927 ng/ml
Noroxycodone	2.950	518547	1807.25	48.4	213.48	62616	252.5413 ng/ml
O-desmethyl-tramadol	3.408	5820465	469989.51	6.1	14112.32	1290475	252.1011 ng/ml
Oxazepam	5.758	42330	∞	71.5	∞	11283	250.7620 ng/ml
Oxycodone	2.881	1494502	4824.74	31.7	35226.46	281266	249.7806 ng/ml
Oxymorphone	1.430	741097	944.23	46.9	823.61	104978	252.4550 ng/ml
Phentermine	3.805	911679	∞	2.3	374.36	519734	236.2475 ng/ml
Promethazine	5.556	4324532	108340.69	30.1	53734.34	764636	250.9395 ng/ml
Quetiapine	5.558	2676225	99837.83	60.3	2759.65	182564	237.4389 ng/ml
Sertraline	5.791	1066732	4674.35	91.6	149795.15	186318	248.3816 ng/ml
Temazepam	5.825	461440	3559.34	29.7	1551.34	98937	248.3013 ng/ml
Tramadol	4.267	5354351	∞	3.4	2012.39	1296379	243.6238 ng/ml
Trazodone	5.146	3690445	158585.07	77.5	127226.74	582838	253.5206 ng/ml
Venlafaxine	5.067	4661754	105069.52	36.2	1886.17	1017325	250.5436 ng/ml
Zolpidem	4.912	5316670	479694.13	30.0	36369.09	1064685	256.4695 ng/ml

AM #28 Multi-Drug Quant. Results



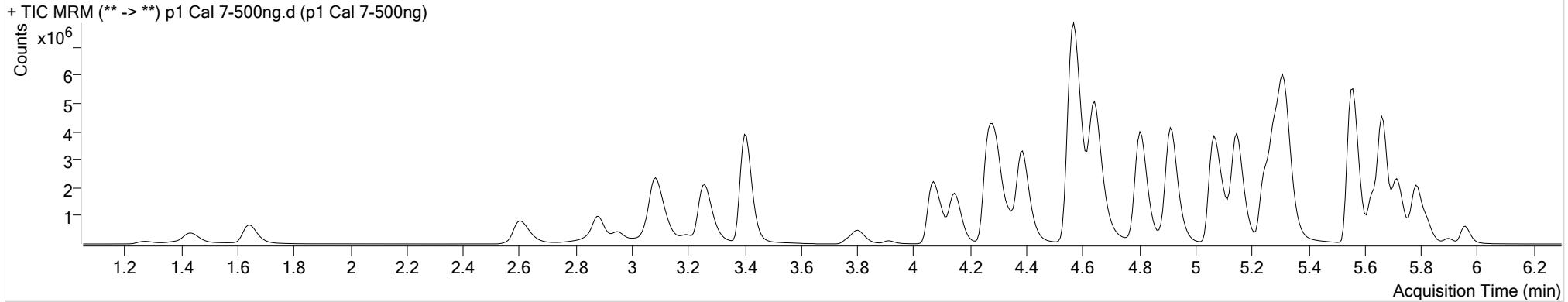
Batch results
Calibration Last Update

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11/12/2019 8:42:49 AM

Instrument Falco
Type Cal
Acq. Method MDQ P1 Combined 092319.m
Sample Position P1-G1
Injection Volume 2
Acq. Date-Time 11/6/2019 11:28:32 PM
Sample Info.

Data File p1 Cal 7-500ng.d
Sample p1 Cal 7-500ng
Operator
Comment

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.170	66898	2085.96	70.4	9338.24	26142	51.3291 ng/ml
7-aminoclonazepam	4.285	392910	19000.07	82.6	16103.66	42587	417.8810 ng/ml
a-hydroxyalprazolam	5.700	50807	224.81	66.0	182.17	5108	520.0373 ng/ml
alpha-PVP	4.391	6240320	96321.84	50.0	44285.05	546006	498.8112 ng/ml
Alprazolam	5.777	1150550	972.46	104.7	2788.43	60114	479.9624 ng/ml
Amphetamine	3.088	4833400	38751.88	54.0	76809.53	184075	366.2472 ng/ml
Benzoylcegonine	3.907	146787	2699.45	7.7	144.01	13859	497.0815 ng/ml
Buprenorphine	5.781	126163	1654.89	16.2	470.81	87411	49.4135 ng/ml
Bupropion	4.807	7528736	545034.53	57.9	111216.43	544960	508.5252 ng/ml
Carisoprodol	5.733	463095	29746.65	54.9	9247.08	43301	508.1554 ng/ml
Citalopram	5.249	3886797	∞	41.3	554.00	354721	498.4611 ng/ml
Clonazepam	5.614	128943	303.73	33.3	505.58	5531	484.9402 ng/ml
Cocaine	4.291	4311631	302070.56	44.8	271296.03	677810	498.1181 ng/ml
Codeine	2.623	479139	18257.05	99.6	12901.47	45561	500.6567 ng/ml
Cyclobenzaprine	5.631	3232110	54560.32	9.5	6532.26	235448	506.6490 ng/ml
Dextromethorphan	5.292	2399254	79011.45	78.9	88416.31	220679	501.7626 ng/ml
Dextrorphan	4.147	1528356	107898.68	211.1	146654.81	408894	498.5396 ng/ml
Diazepam	5.961	778243	1819.82	86.5	708.25	78861	496.6276 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.595	1404119	126598.47	67.0	∞	199615	429.2075 ng/ml
Diphenhydramine	5.320	8889713	185935.60	33.3	32845.87	1309990	497.7725 ng/ml
Doxylamine	4.568	14682759	∞	96.4	326245.87	1250653	515.0614 ng/ml
EDDP	5.284	4745071	112394.99	42.4	574.06	527314	500.5019 ng/ml
Fentanyl	5.113	437918	120762.09	75.1	751.42	446897	51.0359 ng/ml
Fluoxetine	5.716	3638274	78621.74	8.9	36846.65	316805	492.4193 ng/ml
Hydrocodone	3.058	1454202	611.66	41.3	∞	217754	472.7192 ng/ml
Hydromorphone	1.648	1329333	∞	75.7	1279.47	109160	490.9636 ng/ml
Ketamine	4.074	4332930	18641.34	37.9	2419.00	442961	485.2314 ng/ml
Lamotrigine	4.315	226839	14535.24	79.2	20884.75	442961	317.4821 ng/ml
Lorazepam	5.755	81529	5218.23	54.7	1735.35	5531	594.6701 ng/ml
Meprobamate	4.935	185450	1648.47	24.8	2459.98	17324	507.0675 ng/ml
Methadone	5.661	6697892	2525.30	51.2	40540.00	611359	501.0632 ng/ml
Metoprolol	4.346	801983	19542.50	97.6	12525.74	1066154	422.7617 ng/ml
Mirtazapine	4.643	9686094	488458.38	48.4	∞	546006	500.1556 ng/ml
Mitragynine	5.247	986158	125238.18	39.6	∞	611359	492.9409 ng/ml
Morphine	1.273	270408	5958.19	21.1	4077.14	5486	486.3656 ng/ml
Norbuprenorphine	5.024	5368	208.60	73.7	215.18	4712	51.3615 ng/ml
Nordiazepam	5.901	212731	1644.71	57.3	1685.86	14106	498.5413 ng/ml
Norfentanyl	4.108	683100	260037.12	37.8	14077.65	551051	52.4527 ng/ml
Norhydrocodone	3.106	60402	495.80	39.4	551.77	44363	535.5106 ng/ml
Noroxycodone	2.950	884017	2207.51	48.8	704.26	56386	478.6299 ng/ml
O-desmethyl-tramadol	3.401	10127101	235302.35	6.1	55569.07	1116973	507.0342 ng/ml
Oxazepam	5.758	87634	∞	68.6	895.74	11964	490.8608 ng/ml
Oxycodone	2.874	2810596	12161.34	31.2	35644.45	267145	495.0569 ng/ml
Oxymorphone	1.430	1191338	∞	47.3	∞	85584	498.2642 ng/ml
Phentermine	3.805	1453647	∞	2.3	681.61	475982	412.4768 ng/ml
Promethazine	5.556	7033584	340649.58	29.8	104318.66	627715	497.0205 ng/ml
Quetiapine	5.558	4103272	73885.42	59.6	∞	159851	416.6744 ng/ml
Sertraline	5.791	1584696	3322.45	89.1	83694.05	137476	500.1003 ng/ml
Temazepam	5.825	853398	6118.69	28.6	674.62	90143	503.9629 ng/ml
Tramadol	4.267	8872064	∞	3.3	∞	1066154	492.2515 ng/ml
Trazodone	5.146	6363412	∞	79.3	260583.26	517401	492.7163 ng/ml
Venlafaxine	5.067	8097728	3270.41	36.0	2444.79	884991	500.0346 ng/ml
Zolpidem	4.912	9146631	189146.39	30.5	735.45	975757	482.1094 ng/ml

AM #28 Multi-Drug Quant. Results



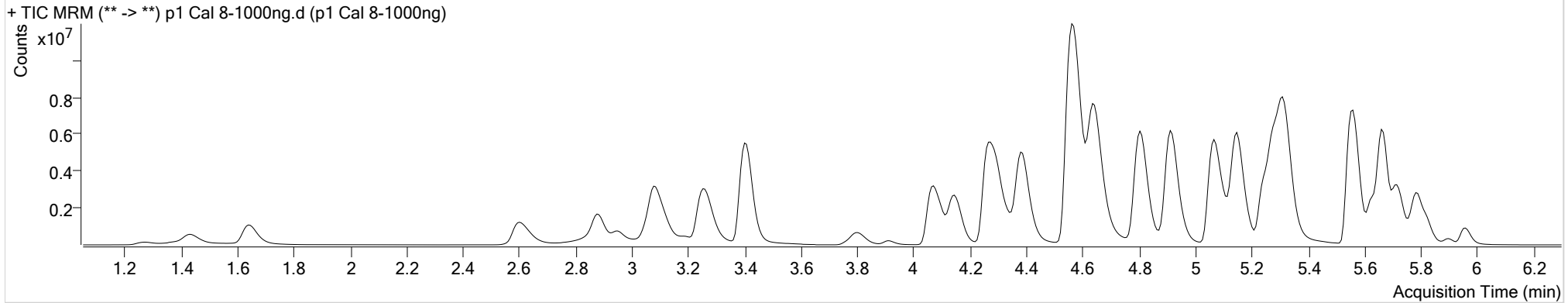
Batch results
Calibration Last Update

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11/12/2019 8:42:49 AM

Instrument Falco
Type Cal
Acq. Method MDQ P1 Combined 092319.m
Sample Position P1-H1
Injection Volume 2
Acq. Date-Time 11/6/2019 11:39:06 PM
Sample Info.

Data File p1 Cal 8-1000ng.d
Sample p1 Cal 8-1000ng
Operator
Comment

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.170	129619	∞	69.5	293915.56	24249	107.1806 ng/ml
7-aminoclonazepam	4.285	388406	4665.44	82.0	5774.47	25605	687.9095 ng/ml
a-hydroxyalprazolam	5.700	90635	225.23	65.0	182.49	4160	1140.0715 ng/ml
alpha-PVP	4.391	10431450	832.57	50.3	5574.76	452449	1006.1704 ng/ml
Alprazolam	5.784	1836932	8491.77	104.5	759.32	44767	1028.6502 ng/ml
Amphetamine	3.088	6687911	81110.70	53.6	168020.46	164344	568.5945 ng/ml
Benzoylcegonine	3.907	303761	25578.45	7.8	9543.31	14576	979.5483 ng/ml
Buprenorphine	5.781	172359	∞	15.9	1827.01	59133	99.8426 ng/ml
Bupropion	4.807	12597092	737610.83	58.6	277149.59	477843	971.5386 ng/ml
Carisoprodol	5.733	628616	29002.25	53.8	3382.55	28296	1055.4500 ng/ml
Citalopram	5.249	5374907	∞	41.4	39850.45	243655	1003.6167 ng/ml
Clonazepam	5.614	193551	1120.95	33.5	1028.73	4698	857.1807 ng/ml
Cocaine	4.291	6264481	261258.23	44.6	158235.34	488576	1004.0346 ng/ml
Codeine	2.623	763174	6545.59	98.9	5577.69	37041	982.5972 ng/ml
Cyclobenzaprine	5.631	4562624	71977.56	9.6	17830.75	166158	1013.5382 ng/ml
Dextromethorphan	5.292	3232107	80727.44	79.3	67907.84	148984	1001.2923 ng/ml
Dextrorphan	4.147	2543948	116547.95	212.0	132591.76	338596	1002.2172 ng/ml
Diazepam	5.961	1221807	∞	87.8	15184.02	61157	1005.6868 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.595	2268591	46002.60	67.3	∞	191166	724.8275 ng/ml
Diphenhydramine	5.320	13005763	337150.60	33.3	33866.54	943438	1010.8654 ng/ml
Doxylamine	4.561	24878194	297030.28	96.0	210267.78	1125402	970.6074 ng/ml
EDDP	5.284	8548993	131276.29	41.7	117790.29	465121	1022.4715 ng/ml
Fentanyl	5.113	790764	201498.58	77.5	1322566.7	386362	106.5956 ng/ml
Fluoxetine	5.716	5370492	242834.94	9.0	305716.91	227551	1011.9017 ng/ml
Hydrocodone	3.058	2560088	∞	40.8	805.37	198091	915.5234 ng/ml
Hydromorphone	1.641	2249082	∞	76.5	∞	95125	953.6507 ng/ml
Ketamine	4.074	7074880	142372.22	37.8	8393.86	389356	901.9874 ng/ml
Lamotrigine	4.315	257045	58698.02	79.5	106540.89	389356	409.7250 ng/ml
Lorazepam	5.755	165755	4266.08	54.8	∞	4698	1423.1895 ng/ml
Meprobamate	4.935	290566	10033.05	25.7	1787.57	12880	1068.5642 ng/ml
Methadone	5.661	10325792	940366.18	51.8	408854.41	472315	999.7739 ng/ml
Metoprolol	4.346	1144691	202791.61	96.9	∞	894314	720.4671 ng/ml
Mirtazapine	4.643	15665107	210923.52	48.9	7792.30	452449	976.4653 ng/ml
Mitragynine	5.241	1533400	89263.31	40.4	35783.48	472315	992.1608 ng/ml
Morphine	1.273	454051	642.57	21.9	7791.72	4885	917.5216 ng/ml
Norbuprenorphine	5.024	9511	371.75	80.0	543.59	4669	92.3876 ng/ml
Nordiazepam	5.901	378265	2832.82	57.6	18715.67	12309	1015.9716 ng/ml
Norfentanyl	4.108	1144895	46321.44	37.4	11852.98	423098	114.4459 ng/ml
Norhydrocodone	3.106	113663	2270.85	38.9	207.03	34327	1301.4117 ng/ml
Noroxycodone	2.950	1529014	7032.15	46.5	4941.66	46731	999.5204 ng/ml
O-desmethyl-tramadol	3.401	16464175	287169.61	6.1	45622.84	920954	1000.0178 ng/ml
Oxazepam	5.758	180266	2583.72	70.9	5384.60	12004	1007.7623 ng/ml
Oxycodone	2.874	5195644	10871.11	31.6	10102.39	257264	950.7637 ng/ml
Oxymorphone	1.430	1984457	∞	47.3	∞	75761	938.0190 ng/ml
Phentermine	3.805	2255340	5511.82	2.3	980.61	447662	681.4611 ng/ml
Promethazine	5.556	10640878	84434.48	29.4	∞	469934	1004.2385 ng/ml
Quetiapine	5.565	5778893	495846.92	59.3	197689.62	136726	686.8558 ng/ml
Sertraline	5.791	2127821	31047.24	90.1	148671.86	92005	1003.3934 ng/ml
Temazepam	5.825	1528169	∞	29.4	5176.25	81360	999.8174 ng/ml
Tramadol	4.260	13089121	∞	3.4	4436.67	894314	866.8181 ng/ml
Trazodone	5.146	10533238	∞	79.7	2234078.1	421795	1000.7613 ng/ml
Venlafaxine	5.067	13491793	396624.30	35.8	6365.75	734952	1002.9447 ng/ml
Zolpidem	4.912	15177546	118141.60	30.3	72725.49	885328	882.3440 ng/ml