

REVIEWED

By Anne Nord at 10:57 am, May 15, 2020

5/14/2020

cg

Worklist: 4238

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
M2020-1474	2	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2020-1556	2	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2020-1565	2	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-1093	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-1094	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-1094	2	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-1211	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-1232	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-1283	6	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-1300	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-1311	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-1312	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-1347	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-1378	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-1379	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-1380	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-1381	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-1397	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-1398	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-1402	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-1403	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	

Worklist: 4238

CS

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>
P2020-1405	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ



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

Extraction Date: 05/12/2020

Analyst: Celena Shrum

Plate lot#: 190729

Plate Expiration: 01/29/20- deviation in place

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

Mobile phase B: 0.01% Formic Acid in MeOH

Blank Blood Lot: 445283-4

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. Pipette **250µL blood (calibrated pipette)** in wells of analytical (standards) plate. **Pipette ID: #42**
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 4. Pipette **250µL 0.5M ammonium hydroxide** in wells of analytical plate.
- 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 6. Transfer **300µL of blood+base/urine+base** mixture to corresponding wells of SLE+ plate.
- 7. Apply positive pressure for approx. 10-15 seconds (or until no liquid remains on top of sorbent).
(Load at 85-100 PSI- Selector to the right) Manifold ID: 067104
- 8. Wait 5 minutes.
- 9. Add **900uL ethyl acetate**.
- 10. Wait 5 minutes.
- 11. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left).*
- 12. Add **900uL ethyl acetate**.
- 13. Wait 5 minutes.
- 14. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left).*
- 15. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C.
SPE Dry ID: 067103
- 16. Reconstitute in **100µL 20% MeOH** and heat seal plate with foil.

Post-Analytic

- 1. Create batch and process data.
- 2. Make necessary changes to integration limits
- 3. Integration linear and R² values ≥0.98 for each analyte.
- 4. For unknown samples and controls: response ratio within 20% of average of controls and standards, RT within +/- 5% (tramadol RT +/-2%), S/N for primary transition >10 and secondary transitions >5.
- 5. Did all QCs pass for each analyte? Yes, see comments Add Control data to QC tracking spreadsheet.
- 6. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports.

COMMENTS:

Curve limits: Amphetamine 5-500, Codeine 5-500, Dihydrocodeine 5-500, EDDP not evaluated, Lamotrigine 5-250, Lorazepam 5-100, Meprobamate 5-500, Mirtazapine: 5-500, Norbuprenorphine 2.5-100.

**Idaho State Police
Forensic Services
Toxicology Discipline**

Request for Departure from an Analytical Method

Date of Request

01/13/2020

Forensic Scientist

Celena Shrum

Analytical Methods

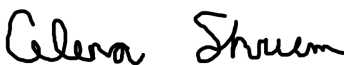
Toxicology AM #25, Toxicology AM #26/27, and AM #28

Deviation

The expiration dates listed for the current batch of PinPoint ToxBox extraction plates are as follows:

- *MDS (batch IDP-107-190725)- Expiration is 1/25/2020
- *THC (batch IDP-108-190716)- Expiration is 1/16/2020
- *MDQ P1 (batch IDP-111-190729)- Expiration is 1/29/2020
- *MDQ P2 (batch IDP-112-190730)- Expiration is 1/30/2020

I am issuing a deviation to allow for the use of the remaining plates of these batches. The controls will be used to evaluate if the plate is working as intended. In addition, at least one external control must be included for each run.



Date: 01/13/2020

Celena Shrum

Toxicology Discipline Lead



Idaho State Police Forensic Services

AM #25 Blood Multi-Drug Screen by LCMS-QQQ And AM #28 Blood Multi-Drug Confirmatory Analysis by LCMS-QQQ---Panel 1

Methanol External Control Solution (Lot: 031820)

100 μ L of 1mg/mL stock was added to each drug to 9700 μ L of LC MeOH.

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>	<i>Expiration Date</i>
Methanol (LCMS)	Fisher	193068	
O-desmethyl Tramadol	Cerilliant	FN01241702	04/30/2022
Amphetamine	Cerilliant	FE04061701	06/30/2022
Alprazolam	Cerilliant	FE07061604	07/31/2021
Prepared:	03/18/20		
Prepared By:	Sarah Pickle		
Expires:	03/18/21		

Blood External Control Solution (Lot: WS031820)

*100 μ L of methanol external control solution was added to 9900 μ L of blood.
Approximately 100 ng/mL of each compound.*

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
Negative Blood	Hemostat	445283-3
Methanol External Control Solution		031820
Prepared:	03/18/20	
Prepared by:	Sarah Pickle	
Expires:	03/18/21	

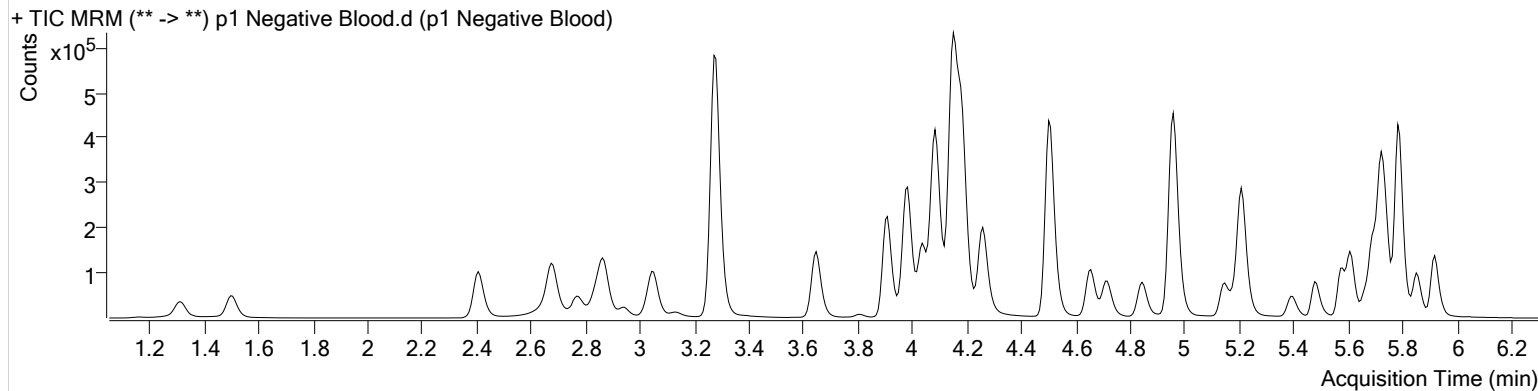
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Calibration Last Update 5/14/2020 8:41:36 AM

Instrument	Falco	Data File	p1 Negative Blood.d
Type	Sample	Sample	p1 Negative Blood
Acq. Method	MDQ P1 01112020.m	Operator	Celena Shrum
Sample Position	P1-E2	Comment	
Injection Volume	2		
Acq. Date-Time	5/12/2020 6:01:18 PM		
Sample Info.			

Sample Chromatogram



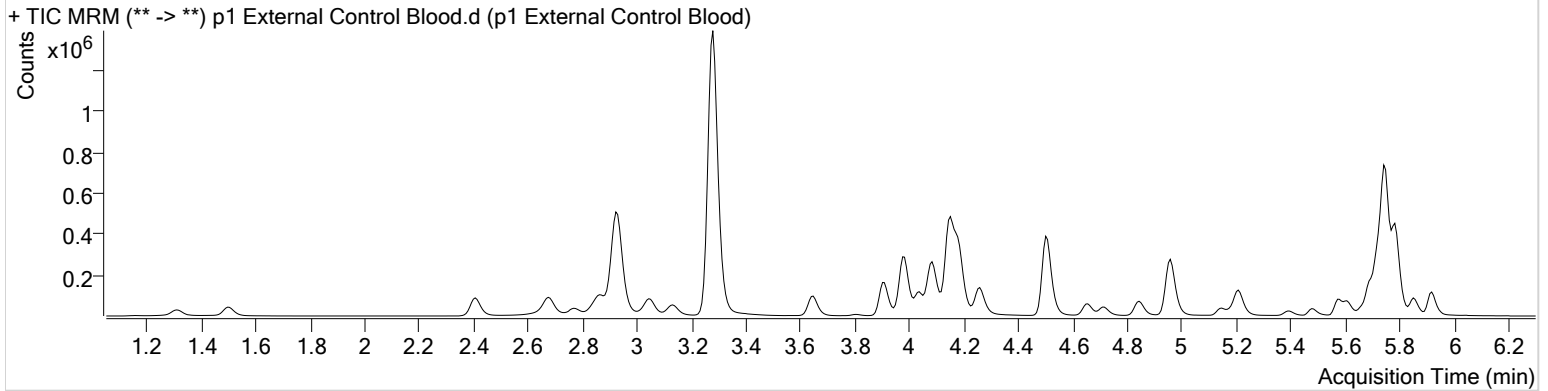
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Calibration Last Update 5/14/2020 8:41:36 AM

Instrument	Falco	Data File	p1 External Control Blood.d
Type	Sample	Sample	p1 External Control Blood
Acq. Method	MDQ P1 01112020.m	Operator	Celena Shrum
Sample Position	P1-A5	Comment	
Injection Volume	2		
Acq. Date-Time	5/12/2020 6:11:52 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Alprazolam	5.750	667026	3899.14	102.6	∞	178212	92.6219 ng/ml
Amphetamine	2.927	1004237	34345.27	50.6	17072.88	117239	103.3309 ng/ml
O-desmethyl-tramadol	3.281	2297982	63914.09	6.1	2176.19	1231909	101.2744 ng/ml

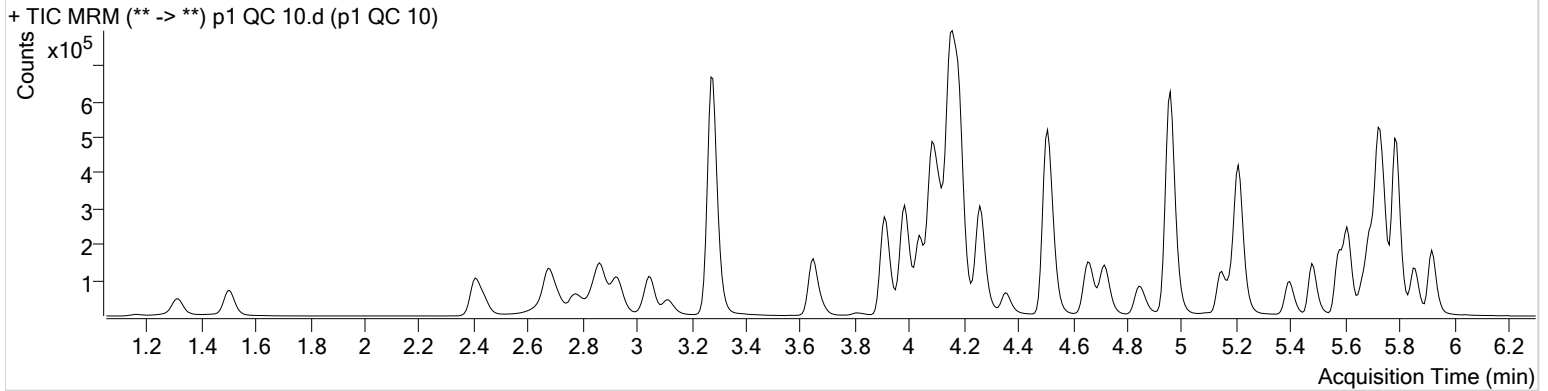
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Calibration Last Update 5/14/2020 1:37:58 PM

Instrument	Falco	Data File	p1 QC 10.d
Type	QC	Sample	p1 QC 10
Acq. Method	MDQ P1 01112020.m	Operator	Celena Shrum
Sample Position	P1-A2	Comment	
Injection Volume	2		
Acq. Date-Time	5/12/2020 4:25:58 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.036	1402	6495.51	69.5	190.27	29788	1.0023 ng/ml
7-aminoclonazepam	3.996	38154	107.06	81.1	132.41	160624	9.6785 ng/ml
a-hydroxyalprazolam	5.674	20908	∞	59.3	177.24	47918	10.5831 ng/ml
alpha-PVP	4.270	118579	854.20	51.4	2033.19	520720	10.0512 ng/ml
Alprazolam	5.750	82152	628.77	102.3	747.47	207109	10.4843 ng/ml
Amphetamine	2.927	164194	4381.89	50.6	2200.12	176453	10.3880 ng/ml
Benzoylcegonine	3.833	4615	557.61	9.2	62.41	16744	9.6385 ng/ml
Buprenorphine	5.415	1893	55.26	19.6	∞	76566	0.9372 ng/ml
Bupropion	4.672	86215	1039.45	58.8	480.31	292987	9.9758 ng/ml
Carisoprodol	5.699	69137	1907.73	53.2	985.61	326789	10.4105 ng/ml
Citalopram	5.148	51012	1099.37	41.8	37084.26	228660	10.0165 ng/ml
Clonazepam	5.587	98819	2556.32	32.8	399.07	115240	10.4699 ng/ml
Cocaine	4.184	121211	4755.87	44.9	2953.68	906191	10.0320 ng/ml
Codeine	2.442	16523	383.74	101.2	11309.60	71563	10.8030 ng/ml
Cyclobenzaprine	5.577	25709	9183.64	9.5	307.70	99269	10.2572 ng/ml
Dextromethorphan	5.184	25009	994.78	79.7	1015.39	115793	10.0393 ng/ml
Dextrorphan	4.038	31435	1634.16	212.0	1987.07	398539	10.3012 ng/ml
Diazepam	5.928	59946	3357.35	88.2	1310.94	273414	10.4148 ng/ml
Dihydrocodeine	2.441	40013	2725.00	66.8	1326.12	212035	10.4137 ng/ml
Diphenhydramine	5.212	118044	1429.70	33.2	644.22	840595	10.2691 ng/ml
Doxylamine	4.112	276548	5128.70	96.3	4699.90	1247164	9.0618 ng/ml
EDDP	5.190	1125	56.15	53.2 High	49.31	4981	6.9112 ng/ml *
Fentanyl	4.959	2766	119.19	58.7	4016.08	152441	0.9786 ng/ml
Fluoxetine	5.669	21497	376.81	8.7	∞	85125	10.4377 ng/ml
Hydrocodone	2.897	49516	241.52	39.1	∞	325782	10.2791 ng/ml
Hydromorphone	1.506	37338	7820.18	77.7	737.77	137425	10.3564 ng/ml
Ketamine	3.925	126279	684.78	38.3	912.05	565144	10.2209 ng/ml
Lamotrigine	4.160	9677	923.87	79.7	1237.30	565144	9.4985 ng/ml
Lorazepam	5.722	85568	203.73	57.5	608.65	115240	10.4290 ng/ml
Meprobamate	4.868	35730	∞	26.8	1779.97	190820	9.9574 ng/ml
Methadone	5.615	67472	839.19	54.7	2117.98	330972	9.8648 ng/ml
Methamphetamine	3.114	68099	379.60	42.3	659.21	291923	10.0093 ng/ml
Metoprolol	4.253	23601	7844.45	96.4	4237.91	1504778	10.6553 ng/ml

p1 QC 10

Generated at 1:38 PM on 5/14/2020

*Not evaluated

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.355	98081	2640.37	49.1	1073.15	520720	8.4509 ng/ml
Mitragynine	5.092	6117	140.77	42.3	251.40	330972	8.8435 ng/ml
Morphine	1.166	5151	440.21	25.1	659.88	5338	9.7394 ng/ml
Norbuprenorphine	4.910	188	16.02	99.5 High	12.74	8588	1.3991 ng/ml**
Nordiazepam	5.861	57744	1403.25	59.5	764.78	182848	10.2150 ng/ml
Norfentanyl	4.007	13398	1566.90	37.3	19.92	573468	1.0228 ng/ml
Norhydrocodone	2.965	4661	73.25	45.8	61.17	53135	9.2207 ng/ml
Noroxycodone	2.796	47381	5364.43	49.8	582.80	147253	10.1849 ng/ml
O-desmethyl-tramadol	3.281	272955	∞	5.9	∞	1458804	10.0773 ng/ml
Oxazepam	5.732	97037	3801.89	73.0	596.58	578115	10.1783 ng/ml
Oxycodone	2.707	96193	578.14	31.5	658.60	424246	10.4876 ng/ml
Oxymorphone	1.317	31880	680.00	48.3	∞	122923	9.4834 ng/ml
Phentermine	3.684	34310	1465.47	2.9	79.28	416749	9.9730 ng/ml
Promethazine	5.481	54774	422.49	32.1	437.14	251425	9.9540 ng/ml
Quetiapine	5.396	54487	502.06	58.0	589.67	69535	10.4302 ng/ml
Sertraline	5.730	13802	688.13	88.5	1118.74	59730	9.9291 ng/ml
Temazepam	5.792	160598	953.21	29.7	349.13	849277	10.2582 ng/ml
Tramadol	4.166	314318	1970.59	3.3	123.51	1504778	10.4710 ng/ml
Trazodone	4.721	59506	2305.83	78.4	2571.71	252171	10.3809 ng/ml
Venlafaxine	4.960	221560	30199.56	36.4	906.88	1176200	10.1527 ng/ml
Zolpidem	4.521	250948	11782.26	30.4	3631.03	1133257	10.3061 ng/ml

*Not evaluated

**Outside curve range

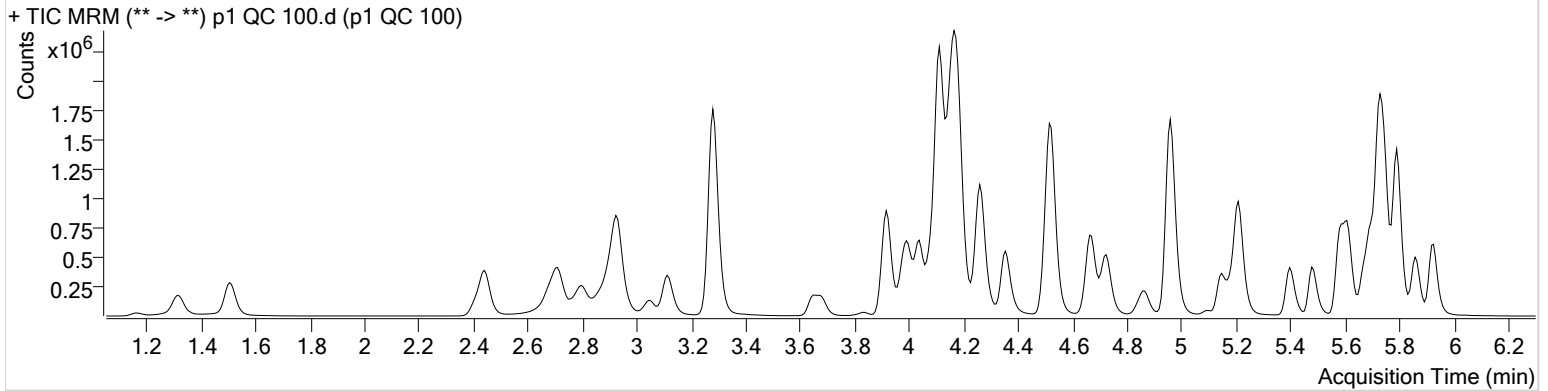
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Calibration Last Update 5/14/2020 1:37:58 PM

Instrument	Falco	Data File	p1 QC 100.d
Type	QC	Sample	p1 QC 100
Acq. Method	MDQ P1 01112020.m	Operator	Celena Shrum
Sample Position	P1-B2	Comment	
Injection Volume	2		
Acq. Date-Time	5/12/2020 4:47:10 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.036	15823	1122.10	69.5	223.27	34359	10.0443 ng/ml
7-aminoclonazepam	3.996	433999	3538.36	81.7	2270.93	186434	102.2434 ng/ml
a-hydroxyalprazolam	5.674	197163	1838.18	63.7	877.88	47676	100.2425 ng/ml
alpha-PVP	4.263	1192736	2366.03	51.3	15338.41	530400	95.6267 ng/ml
Alprazolam	5.750	774221	667.15	102.8	1602.84	195480	97.9664 ng/ml
Amphetamine	2.927	1518762	19329.53	50.6	13933.23	176850	103.6000 ng/ml
Benzoylcegonine	3.833	48296	1757.34	8.4	310.60	17184	100.5104 ng/ml
Buprenorphine	5.415	18135	1136.47	16.5	389.77	70309	9.8129 ng/ml
Bupropion	4.672	983544	57239.76	58.8	3358.22	343907	100.4557 ng/ml
Carisoprodol	5.699	648730	1095307.25	55.2	7099.88	320492	103.3953 ng/ml
Citalopram	5.148	462547	3887.55	41.1	2755.65	210664	99.3603 ng/ml
Clonazepam	5.587	936483	∞	33.2	45078.63	115505	101.7947 ng/ml
Cocaine	4.184	1184273	73977.61	44.4	53258.85	907183	97.2895 ng/ml
Codeine	2.449	162837	1706.74	102.2	2244.11	77161	106.9729 ng/ml
Cyclobenzaprine	5.577	237898	1344.83	9.2	331.24	92465	100.3774 ng/ml
Dextromethorphan	5.184	237495	3726.77	79.1	1175.95	112330	98.4049 ng/ml
Dextrorphan	4.038	317485	3131.66	210.7	14588.10	408855	100.2809 ng/ml
Diazepam	5.928	569520	6384.02	89.0	2121.94	273901	102.0660 ng/ml
Dihydrocodeine	2.441	414151	8084.44	66.2	∞	235163	103.6905 ng/ml
Diphenhydramine	5.212	1092710	1212.69	32.8	1359.25	777250	98.9627 ng/ml
Doxylamine	4.112	2967066	83894.57	96.4	54845.64	1316755	105.6194 ng/ml
EDDP	5.190	15416	1062.23	41.6	193.37	7336	64.4198 ng/ml*
Fentanyl	4.959	24886	1486.52	65.0	22663.69	141441	10.2413 ng/ml
Fluoxetine	5.669	224503	1408.03	8.6	649.56	93746	104.5007 ng/ml
Hydrocodone	2.897	503650	230.15	39.3	171.16	362628	97.4971 ng/ml
Hydromorphone	1.506	397638	6711.34	70.5	9607.77	140962	112.1549 ng/ml
Ketamine	3.918	1298768	24996.72	38.5	5953.89	597611	103.7954 ng/ml
Lamotrigine	4.154	88960	4966.94	80.4	2610.55	597611	92.6057 ng/ml
Lorazepam	5.722	708362	∞	56.5	4034.18	115505	92.2046 ng/ml
Meprobamate	4.868	354644	24883.67	26.1	387.90	191934	102.7551 ng/ml
Methadone	5.615	604275	2311.39	55.5	15596.19	305716	94.7272 ng/ml
Methamphetamine	3.114	658960	4859.52	42.3	9313.43	292686	104.2226 ng/ml
Metoprolol	4.253	234692	6345.48	95.5	∞	1577325	106.7152 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.355	916026	4892.82	48.6	4150.42	530400	83.3182 ng/ml
Mitragynine	5.092	63872	8451.20	38.3	232.31	305716	93.9621 ng/ml
Morphine	1.166	54270	557.29	24.5	3535.60	5581	102.0876 ng/ml
Norbuprenorphine	4.910	1703	123.18	79.6	∞	7864	10.8775 ng/ml
Nordiazepam	5.861	558651	∞	57.2	2268.98	179006	105.0863 ng/ml
Norfentanyl	4.007	163265	1960.68	38.0	1583.10	726462	10.2864 ng/ml
Norhydrocodone	2.965	49849	227.07	41.8	233.55	51655	93.3885 ng/ml
Noroxycodone	2.796	487802	3812.54	50.5	775.60	157717	101.7808 ng/ml
O-desmethyl-tramadol	3.281	2882006	66753.72	5.9	∞	1544067	101.3353 ng/ml
Oxazepam	5.732	838383	∞	70.8	∞	526463	101.2127 ng/ml
Oxycodone	2.707	995667	4063.24	32.0	1534.50	462876	104.1211 ng/ml
Oxymorphone	1.317	342008	2841.19	47.1	∞	129002	99.8118 ng/ml
Phentermine	3.684	335523	4227.58	2.7	637.01	420770	104.4241 ng/ml
Promethazine	5.481	522118	1927.93	31.1	2378.13	244895	96.6567 ng/ml
Quetiapine	5.396	511205	3612.79	60.8	6657.29	68384	98.9118 ng/ml
Sertraline	5.730	119249	837.46	88.9	2081.65	54188	93.7706 ng/ml
Temazepam	5.792	1621038	7864.30	29.8	2171.58	860951	102.6257 ng/ml
Tramadol	4.166	3108596	10571.84	3.4	1094.96	1577325	105.1859 ng/ml
Trazodone	4.721	575619	31421.24	79.4	5115.06	254593	95.3324 ng/ml
Venlafaxine	4.960	2200924	6960.27	35.8	1623.35	1172093	96.1186 ng/ml
Zolpidem	4.521	2625510	292359.62	30.2	9509.04	1222781	103.8729 ng/ml

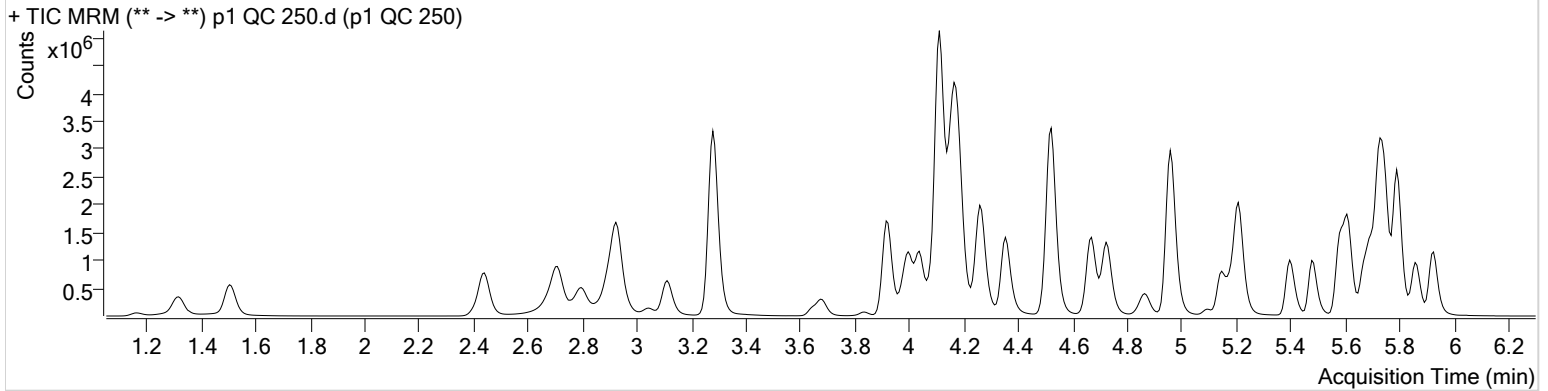
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Calibration Last Update 5/14/2020 1:37:58 PM

Instrument	Falco	Data File	p1 QC 250.d
Type	QC	Sample	p1 QC 250
Acq. Method	MDQ P1 01112020.m	Operator	Celena Shrum
Sample Position	P1-C2	Comment	
Injection Volume	2		
Acq. Date-Time	5/12/2020 5:08:21 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.036	37404	1346.04	71.0	772.49	32074	25.4773 ng/ml
7-aminoclonazepam	3.996	1028357	504.39	83.4	∞	182537	248.6287 ng/ml
a-hydroxyalprazolam	5.674	451428	992.26	62.9	3863.51	42353	258.3542 ng/ml
alpha-PVP	4.270	2461273	3817.73	50.7	2775.13	431684	241.8275 ng/ml
Alprazolam	5.750	1727661	∞	101.0	1140.72	164383	258.7296 ng/ml
Amphetamine	2.927	3047292	44199.38	50.8	54169.93	154196	239.6284 ng/ml
Benzoyllecgonine	3.833	120137	4428.57	7.8	2991.54	16687	257.8415 ng/ml
Buprenorphine	5.415	48803	∞	15.7	4480.78	71573	25.9474 ng/ml
Bupropion	4.672	2197428	2571.28	59.0	2567.08	305196	253.5144 ng/ml
Carisoprodol	5.699	1375725	∞	54.0	∞	274459	256.6935 ng/ml
Citalopram	5.148	1212970	2333.79	41.0	4090.73	221436	248.0170 ng/ml
Clonazepam	5.587	1998069	∞	33.8	26025.63	100019	251.2992 ng/ml
Cocaine	4.184	2434997	220493.66	45.6	183691.29	743165	244.0798 ng/ml
Codeine	2.442	340623	2484.03	102.8	2536.86	70668	245.6279 ng/ml
Cyclobenzaprine	5.577	659025	17043.05	9.2	3529.11	103269	248.7245 ng/ml
Dextromethorphan	5.184	634893	1699.03	79.0	3126.93	117506	251.4985 ng/ml
Dextrorphan	4.038	684248	3542.04	211.5	59966.25	349908	252.3412 ng/ml
Diazepam	5.928	1253727	7289.94	87.5	1080.00	242504	254.3533 ng/ml
Dihydrocodeine	2.441	926104	∞	66.9	4898.14	228355	239.7970 ng/ml
Diphenhydramine	5.212	2894691	21156.58	33.0	15246.81	816078	249.0386 ng/ml
Doxylamine	4.112	6904622	∞	96.0	233810.46	1180534	276.5038 ng/ml
EDDP	5.190	56374	961.51	41.8	∞	12005	143.9644 ng/ml*
Fentanyl	4.965	66395	656.75	67.2	550.31	150195	25.8617 ng/ml
Fluoxetine	5.669	645076	∞	8.6	∞	105452	267.9478 ng/ml
Hydrocodone	2.897	1092556	174.69	39.7	178.35	293353	262.1800 ng/ml
Hydromorphone	1.506	821073	3688.01	78.0	8105.71	131443	248.9563 ng/ml
Ketamine	3.925	2909464	123374.50	37.7	3578.95	540096	258.0235 ng/ml
Lamotrigine	4.154	182930	∞	80.0	∞	540096	212.3688 ng/ml
Lorazepam	5.722	1187396	∞	56.8	4098.16	100019	179.2703 ng/ml*
Meprobamate	4.868	785270	99855.83	25.6	24114.21	178251	245.6911 ng/ml
Methadone	5.615	1675089	45213.14	54.2	33961.80	325722	246.2920 ng/ml
Methamphetamine	3.114	1234468	9571.83	42.7	2393.83	229999	249.6807 ng/ml
Metoprolol	4.253	466746	17856.38	97.5	∞	1297044	259.0341 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.355	2394050	8255.29	49.1	4786.65	431684	269.1269 ng/ml
Mitragynine	5.092	183411	423245.40	39.2	32319.66	325722	252.2540 ng/ml
Morphine	1.166	126894	4951.56	24.3	588.71	5327	250.7224 ng/ml
Norbuprenorphine	4.910	4623	118.64	78.5	∞	8523	26.7428 ng/ml
Nordiazepam	5.861	1233068	4331.28	57.2	13511.44	159087	261.6824 ng/ml
Norfentanyl	4.006	403117	18068.61	37.3	1112.72	729662	25.3624 ng/ml
Norhydrocodone	2.965	108326	460.71	43.8	∞	41488	251.3052 ng/ml
Noroxycodone	2.796	1067000	∞	50.0	4152.33	140119	251.2516 ng/ml
O-desmethyl-tramadol	3.281	6969236	181650.65	5.8	4907.08	1445062	261.9797 ng/ml
Oxazepam	5.731	1590353	73779.28	70.5	11896.05	387591	261.6463 ng/ml
Oxycodone	2.707	2416970	1916.78	32.0	12827.57	446857	262.6392 ng/ml
Oxymorphone	1.317	769067	∞	48.8	∞	120650	240.4175 ng/ml
Phentermine	3.684	679153	27020.61	2.6	1205.55	364795	245.0077 ng/ml
Promethazine	5.481	1513760	4292.18	30.8	14923.34	270804	253.2822 ng/ml
Quetiapine	5.396	1378070	49229.01	60.8	2841.80	71873	253.5882 ng/ml
Sertraline	5.730	287225	2992.33	89.0	4736.45	51220	238.7994 ng/ml
Temazepam	5.792	3702628	3257.96	29.0	2483.34	783112	257.7899 ng/ml
Tramadol	4.166	6453880	∞	3.3	1298.47	1297044	266.7261 ng/ml
Trazodone	4.721	1654882	10006.55	79.5	30014.17	283431	245.4288 ng/ml
Venlafaxine	4.960	4849556	136473.90	35.4	3941.77	998592	247.6870 ng/ml
Zolpidem	4.521	6190003	366678.74	30.0	50859.80	1148820	261.3449 ng/ml

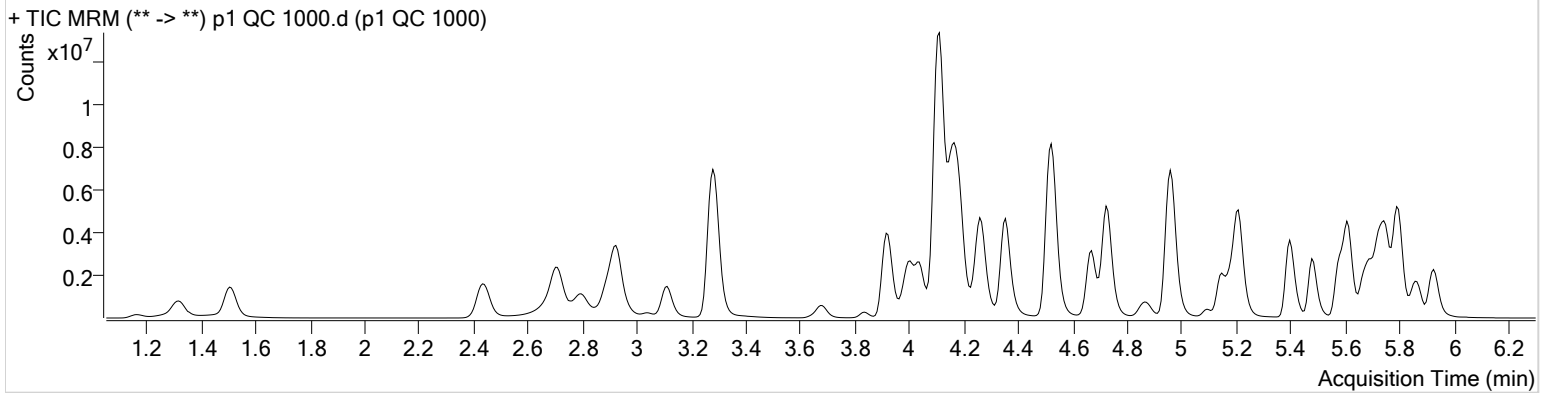
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Calibration Last Update 5/14/2020 1:37:58 PM

Instrument	Falco	Data File	p1 QC 1000.d
Type	QC	Sample	p1 QC 1000
Acq. Method	MDQ P1 01112020.m	Operator	Celena Shrum
Sample Position	P1-D2	Comment	
Injection Volume	2		
Acq. Date-Time	5/12/2020 5:29:32 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.036	136962	5893.55	70.2	1561.90	29494	101.5311 ng/ml
7-aminoclonazepam	3.996	3115956	∞	82.6	∞	168826	816.4499 ng/ml
a-hydroxyalprazolam	5.674	1044697	765.73	63.4	477.32	28219	897.3252 ng/ml
alpha-PVP	4.263	6808852	7343.20	50.1	2680.47	282182	1022.1056 ng/ml
Alprazolam	5.750	3935308	297.12	103.9	285.33	94200	1026.1952 ng/ml
Amphetamine	2.927	6178111	43810.61	50.9	67060.32	104706	717.3181 ng/ml **
Benzoylcegonine	3.833	477119	37319.20	7.8	2532.39	16509	1035.7881 ng/ml
Buprenorphine	5.415	135240	2891.05	15.5	777.44	45867	112.2129 ng/ml
Bupropion	4.672	5095794	9002.91	59.1	113704.40	175957	1020.9128 ng/ml
Carisoprodol	5.699	2710929	131009.47	54.3	16245.08	144782	960.0944 ng/ml
Citalopram	5.148	3429950	19469.16	40.3	3602.97	150685	1030.8898 ng/ml
Clonazepam	5.587	4114206	∞	33.5	42229.66	57622	899.0285 ng/ml
Cocaine	4.184	6200829	258929.02	44.5	169343.91	466103	990.8121 ng/ml
Codeine	2.442	786538	10825.96	98.1	∞	54771	733.8033 ng/ml **
Cyclobenzaprine	5.577	1888318	1028.90	9.3	1539.52	69109	1064.3763 ng/ml
Dextromethorphan	5.184	1815159	18665.87	79.4	1556.61	83063	1017.2414 ng/ml
Dextrorphan	4.038	1707920	19542.58	213.5	212545.39	212035	1039.0130 ng/ml
Diazepam	5.928	2995886	53573.50	86.8	4619.20	150415	981.0178 ng/ml
Dihydrocodeine	2.434	2365313	∞	66.9	∞	196669	712.6604 ng/ml **
Diphenhydramine	5.212	8221887	1617.70	32.6	26522.30	562678	1024.5759 ng/ml
Doxylamine	4.112	20115157	938532.97	97.4	∞	1077309	885.9579 ng/ml
EDDP	5.183	655514	∞	42.4	∞	37336	538.3139 ng/ml *
Fentanyl	4.965	160688	633.79	68.3	717.36	96742	97.4114 ng/ml
Fluoxetine	5.669	1596799	497.35	8.7	737.64	68818	1018.1671 ng/ml
Hydrocodone	2.891	3002408	76.76	40.3	82.88	264366	800.3847 ng/ml
Hydromorphone	1.506	2427998	4055.81	77.7	3988.66	107596	900.6472 ng/ml
Ketamine	3.918	7996177	11103.97	37.0	15267.37	403397	950.7850 ng/ml
Lamotrigine	4.148	305613	∞	80.6	∞	403397	476.6375 ng/ml **
Lorazepam	5.722	1337382	∞	57.1	10829.73	57622	351.2778 ng/ml **
Meprobamate	4.868	1729868	95252.16	25.3	9923.04	128906	749.4509 ng/ml **
Methadone	5.615	4947839	2155.53	52.8	12456.05	229999	1029.9280 ng/ml
Methamphetamine	3.114	2996793	22526.09	42.1	26123.77	153704	909.3074 ng/ml
Metoprolol	4.246	1076917	86508.65	96.8	∞	835960	929.0286 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.355	8137814	17773.25	48.0	1950.23	282182	1402.4852 ng/ml**
Mitragynine	5.092	634574	46967.43	38.1	27212.58	229999	1233.7209 ng/ml
Morphine	1.166	394531	3239.56	24.4	∞	4339	958.2272 ng/ml
Norbuprenorphine	4.910	13037	611.23	80.3	∞	6239	102.0648 ng/ml
Nordiazepam	5.868	2635893	1223.00	57.4	1930.54	93694	951.0439 ng/ml
Norfentanyl	4.007	963529	7163.87	37.7	7205.84	508239	87.1584 ng/ml
Norhydrocodone	2.965	335409	520.21	42.8	372.75	27436	1173.6753 ng/ml
Noroxycodone	2.796	2511512	1942.42	49.8	5414.28	91442	907.3921 ng/ml
O-desmethyl-tramadol	3.281	18898833	327220.33	5.9	2355.71	1006946	1019.7853 ng/ml
Oxazepam	5.725	1928135	∞	66.9	∞	140603	875.7355 ng/ml
Oxycodone	2.700	7635541	4158.64	31.7	2903.96	384058	966.8403 ng/ml
Oxymorphone	1.317	2213976	10395.95	49.6	∞	89693	931.8852 ng/ml
Phentermine	3.684	1614809	17075.57	2.6	4484.20	252893	842.5112 ng/ml
Promethazine	5.481	4668750	7978.23	30.0	12518.39	205974	1026.7840 ng/ml
Quetiapine	5.396	5423365	9082.12	60.3	34930.17	70215	1021.3452 ng/ml
Sertraline	5.730	595844	11191.69	89.3	745.15	25820	982.4234 ng/ml
Temazepam	5.798	9224490	10494.22	27.7	∞	481454	1044.8070 ng/ml
Tramadol	4.159	15034668	∞	3.3	592.19	835960	966.0495 ng/ml
Trazodone	4.721	7411300	4207.87	78.6	196441.08	304815	1020.5065 ng/ml
Venlafaxine	4.960	13743258	∞	34.4	5833.38	692605	1010.2794 ng/ml
Zolpidem	4.521	17715897	1421661.73	30.0	122371.36	933230	921.9101 ng/ml

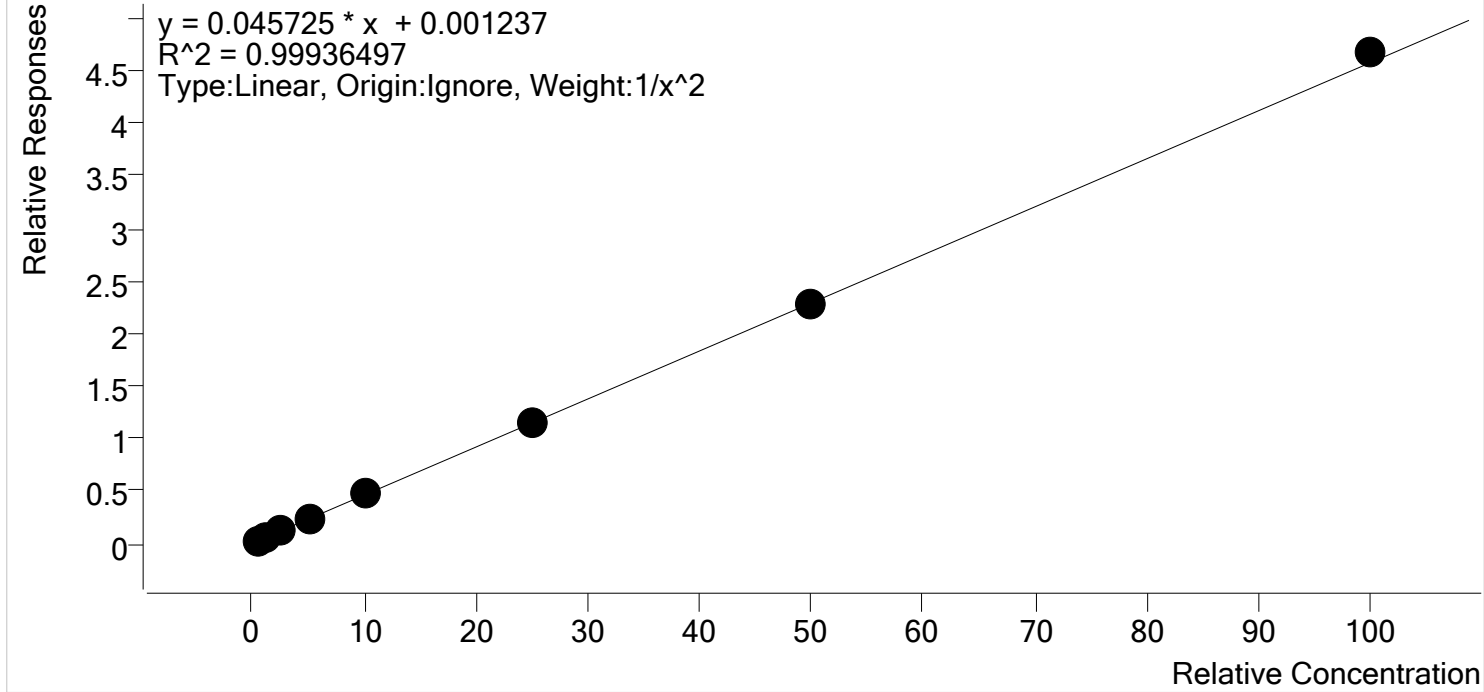
**Outside curve range



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte 6-MAM **Internal Standard** 6-MAM-D6

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

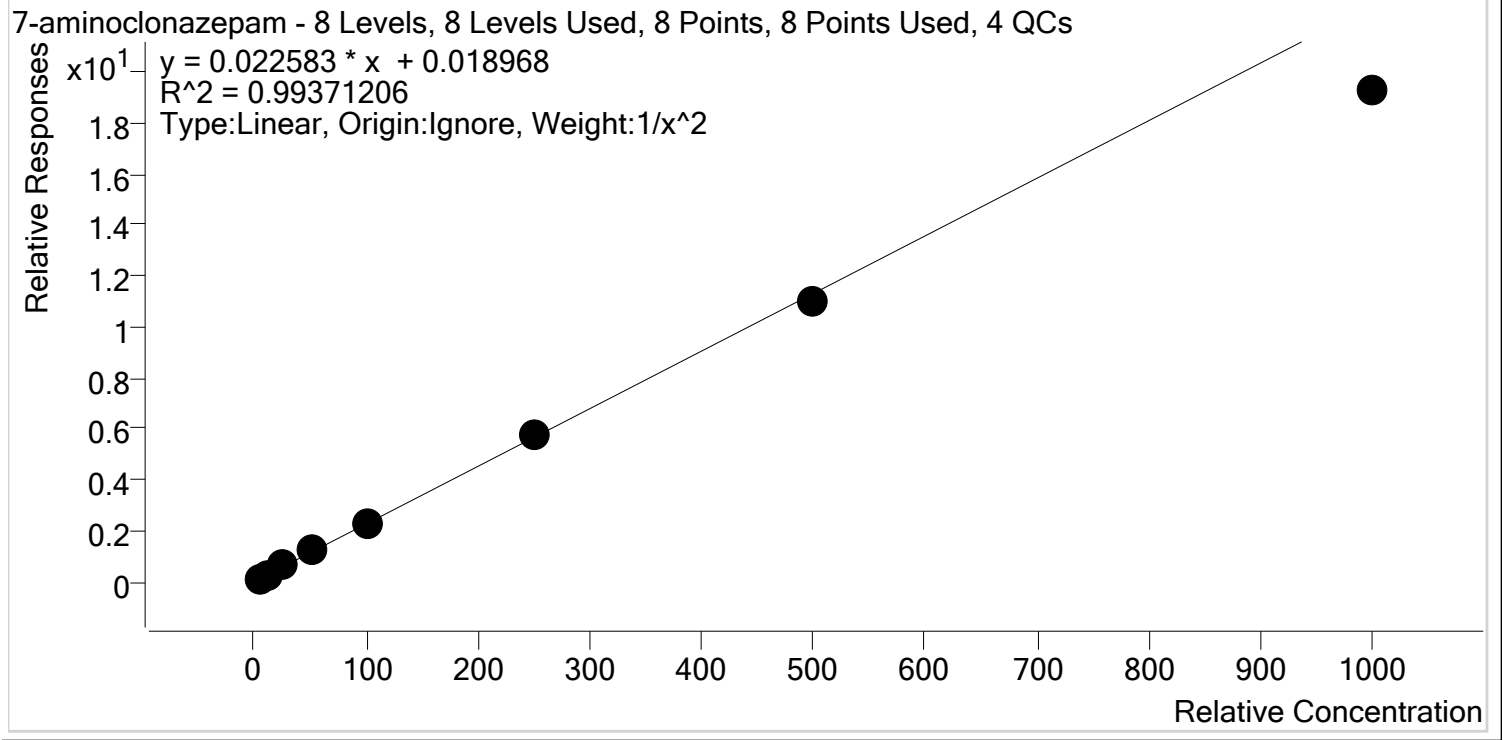


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	100.1
p1 Cal 2- 10ng	2	✓	1.0	1.0	101.7
p1 Cal 3 -25ng	3	✓	2.5	2.4	95.9
p1 Cal 4-50ng	4	✓	5.0	4.9	97.6
p1 Cal 5-100ng	5	✓	10.0	10.2	101.7
p1 Cal 6-250ng	6	✓	25.0	25.2	100.9
p1 Cal 7-500ng	7	✓	50.0	50.1	100.1
p1 Cal 8-1000ng	8	✓	100.0	102.1	102.1



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte 7-aminoclonazepam **Internal Standard** 7-Aminoclonazepam-D4

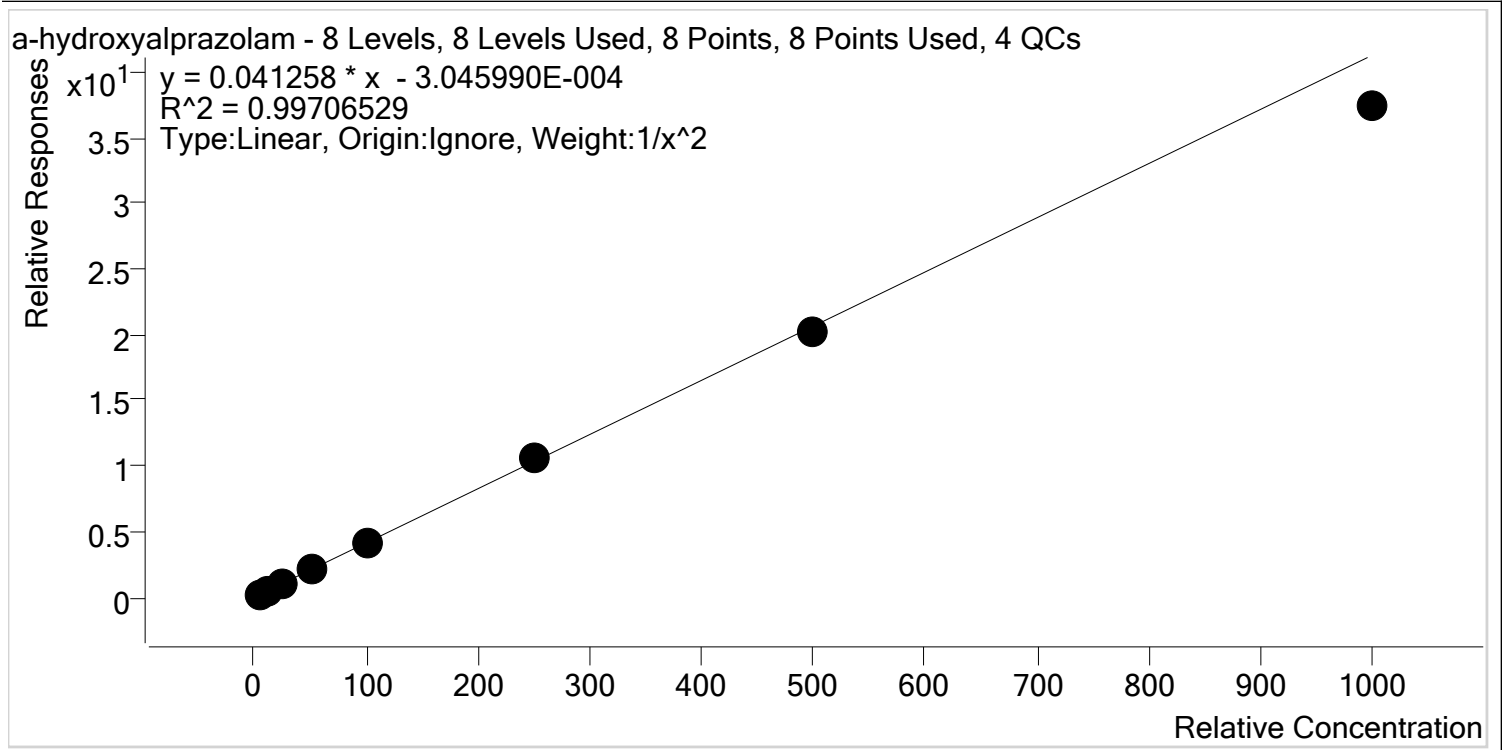


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.6
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.9
p1 Cal 3 -25ng	3	✓	25.0	26.3	105.4
p1 Cal 4-50ng	4	✓	50.0	53.8	107.5
p1 Cal 5-100ng	5	✓	100.0	103.4	103.4
p1 Cal 6-250ng	6	✓	250.0	255.9	102.4
p1 Cal 7-500ng	7	✓	500.0	487.8	97.6
p1 Cal 8-1000ng	8	✓	1000.0	852.3	85.2



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte a-hydroxyalprazolam **Internal Standard** a-hydroxyalprazolam-D5



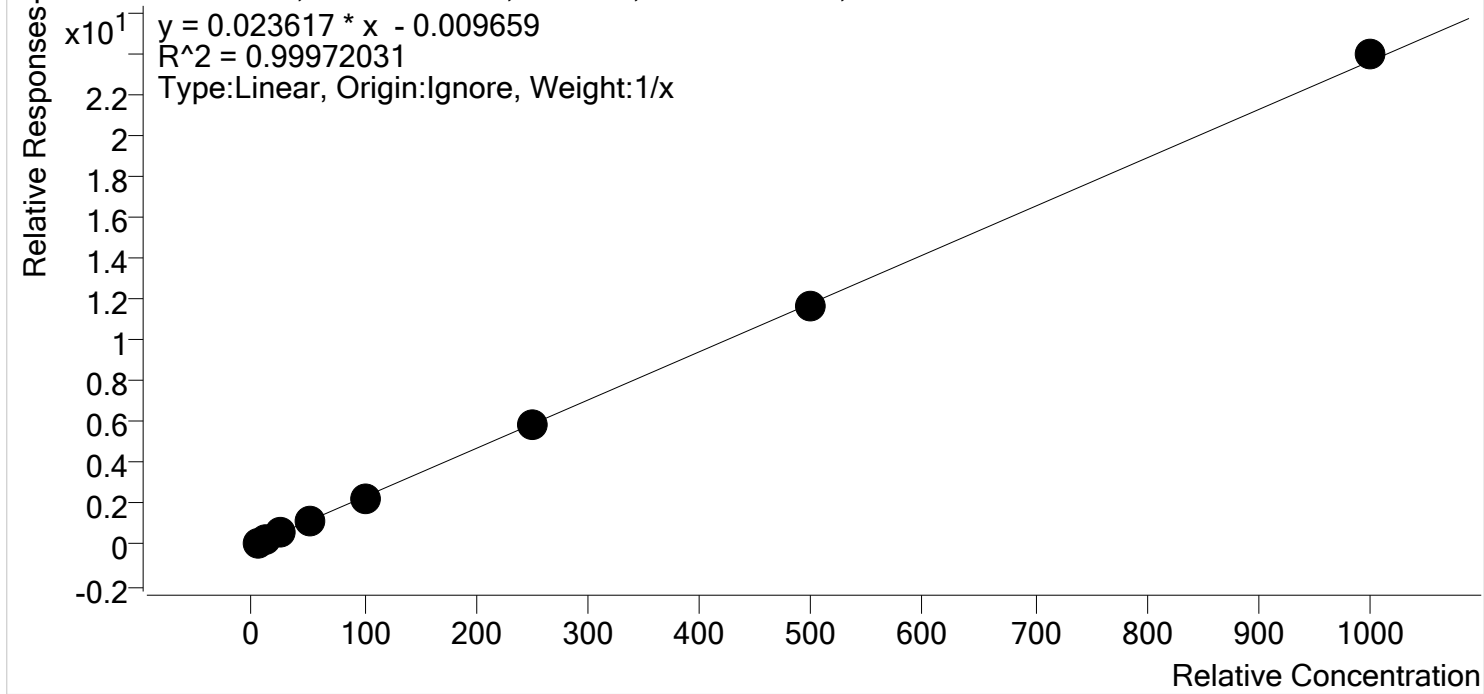
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.8
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.9
p1 Cal 3 -25ng	3	✓	25.0	25.8	103.1
p1 Cal 4-50ng	4	✓	50.0	53.3	106.5
p1 Cal 5-100ng	5	✓	100.0	100.2	100.2
p1 Cal 6-250ng	6	✓	250.0	257.2	102.9
p1 Cal 7-500ng	7	✓	500.0	489.9	98.0
p1 Cal 8-1000ng	8	✓	1000.0	905.9	90.6



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte alpha-PVP **Internal Standard** alpha-PVP-d8

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

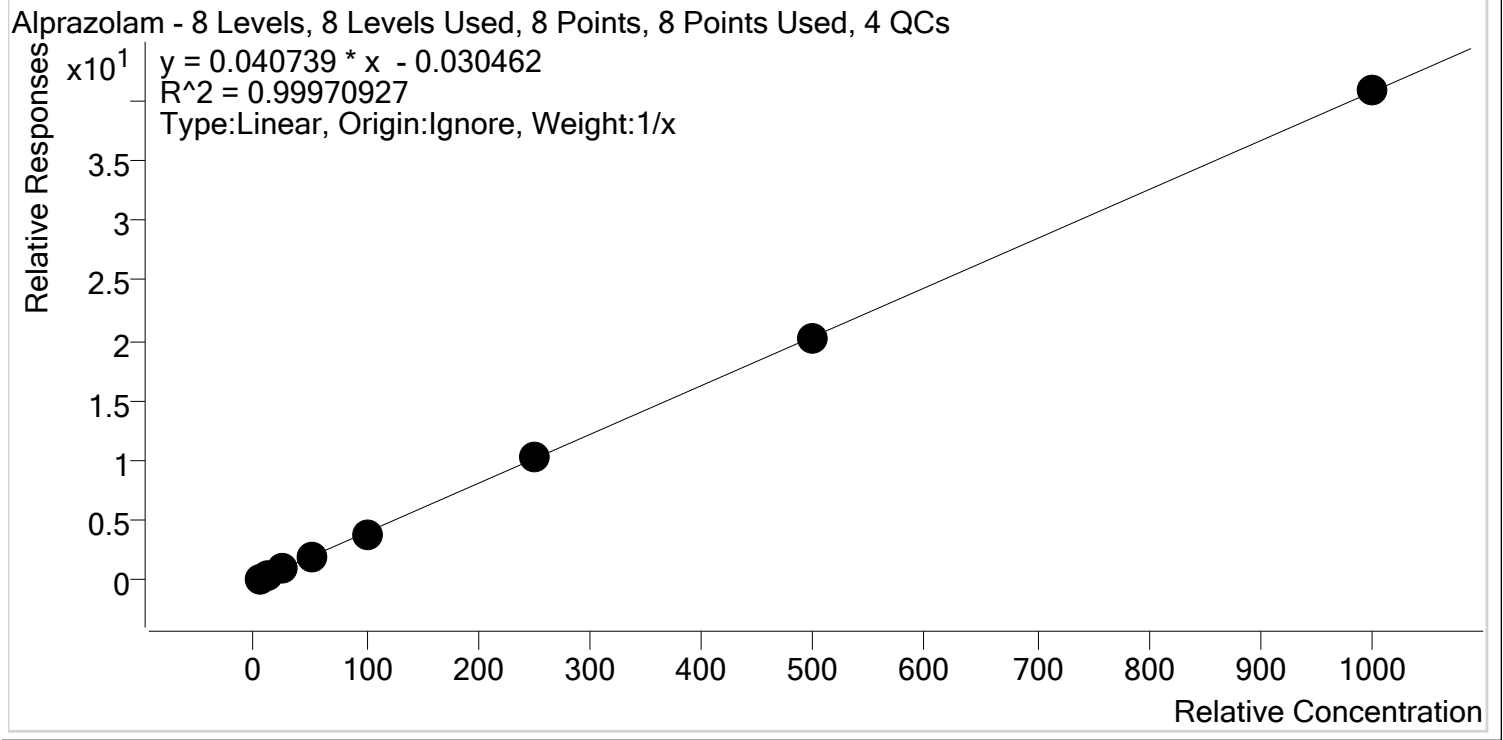


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.4	108.5
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.0
p1 Cal 3 -25ng	3	✓	25.0	24.1	96.2
p1 Cal 4-50ng	4	✓	50.0	49.2	98.4
p1 Cal 5-100ng	5	✓	100.0	96.8	96.8
p1 Cal 6-250ng	6	✓	250.0	247.5	99.0
p1 Cal 7-500ng	7	✓	500.0	493.2	98.6
p1 Cal 8-1000ng	8	✓	1000.0	1013.7	101.4



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte Alprazolam **Internal Standard** Alprazolam-D5



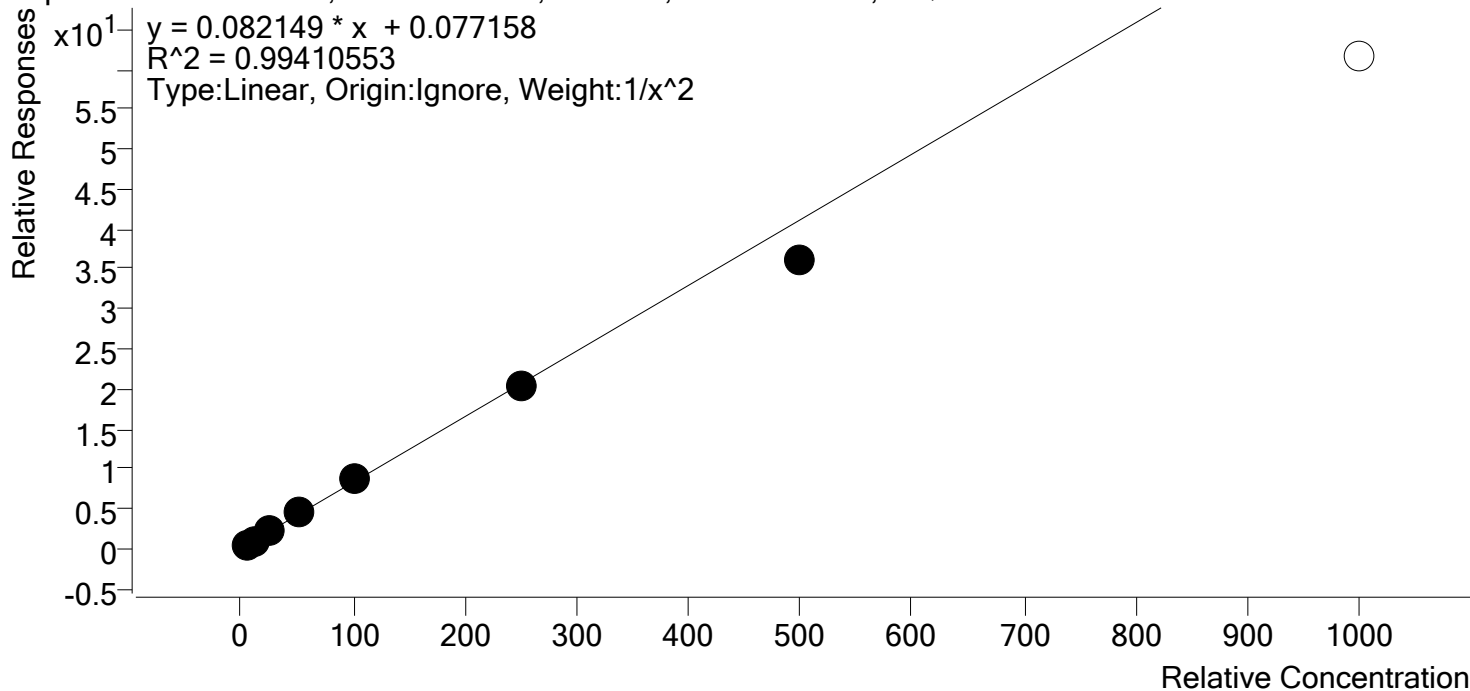
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.5	109.5
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.0
p1 Cal 3 -25ng	3	✓	25.0	24.0	95.9
p1 Cal 4-50ng	4	✓	50.0	48.2	96.5
p1 Cal 5-100ng	5	✓	100.0	94.9	94.9
p1 Cal 6-250ng	6	✓	250.0	255.0	102.0
p1 Cal 7-500ng	7	✓	500.0	499.7	99.9
p1 Cal 8-1000ng	8	✓	1000.0	1002.5	100.3



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte Amphetamine **Internal Standard** Amphetamine-D11

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

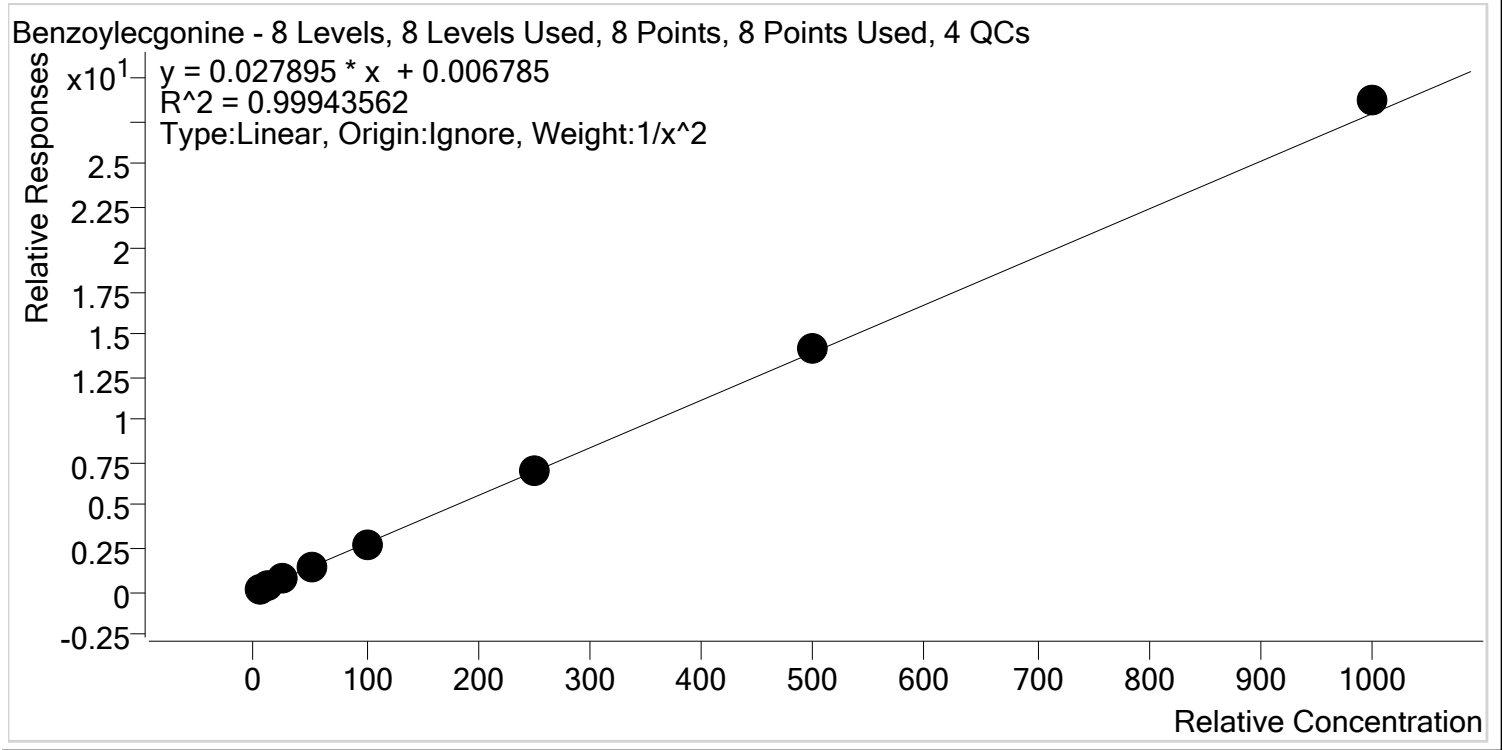


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.5
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.8
p1 Cal 3 -25ng	3	✓	25.0	26.1	104.3
p1 Cal 4-50ng	4	✓	50.0	53.7	107.5
p1 Cal 5-100ng	5	✓	100.0	103.5	103.5
p1 Cal 6-250ng	6	✓	250.0	244.4	97.7
p1 Cal 7-500ng	7	✓	500.0	438.2	87.6
p1 Cal 8-1000ng	8	✗	1000.0	748.5	74.9



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte Benzoylecgonine **Internal Standard** Benzoylecgonine-d8



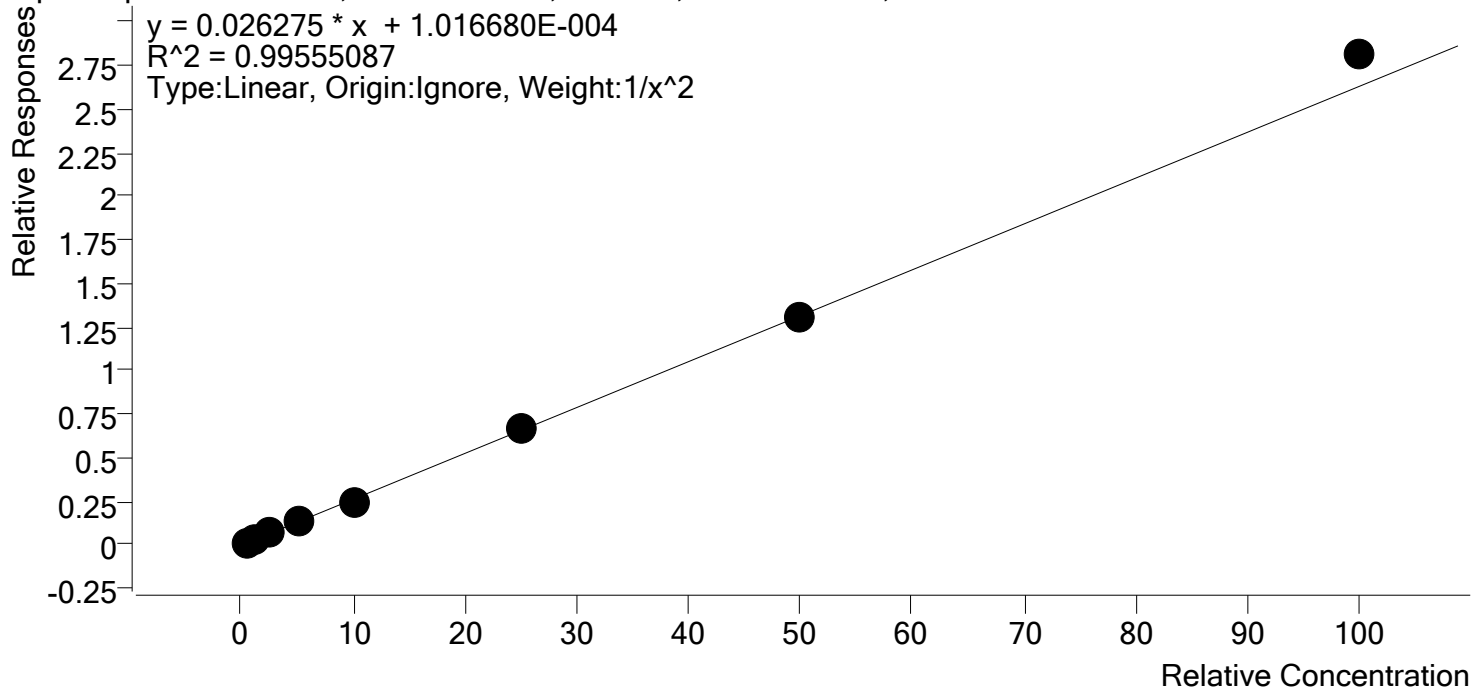
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.7
p1 Cal 2- 10ng	2	✓	10.0	9.7	96.9
p1 Cal 3 -25ng	3	✓	25.0	24.9	99.7
p1 Cal 4-50ng	4	✓	50.0	50.1	100.2
p1 Cal 5-100ng	5	✓	100.0	97.2	97.2
p1 Cal 6-250ng	6	✓	250.0	250.5	100.2
p1 Cal 7-500ng	7	✓	500.0	506.9	101.4
p1 Cal 8-1000ng	8	✓	1000.0	1027.4	102.7



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte Buprenorphine **Internal Standard** Buprenorphine-D4

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

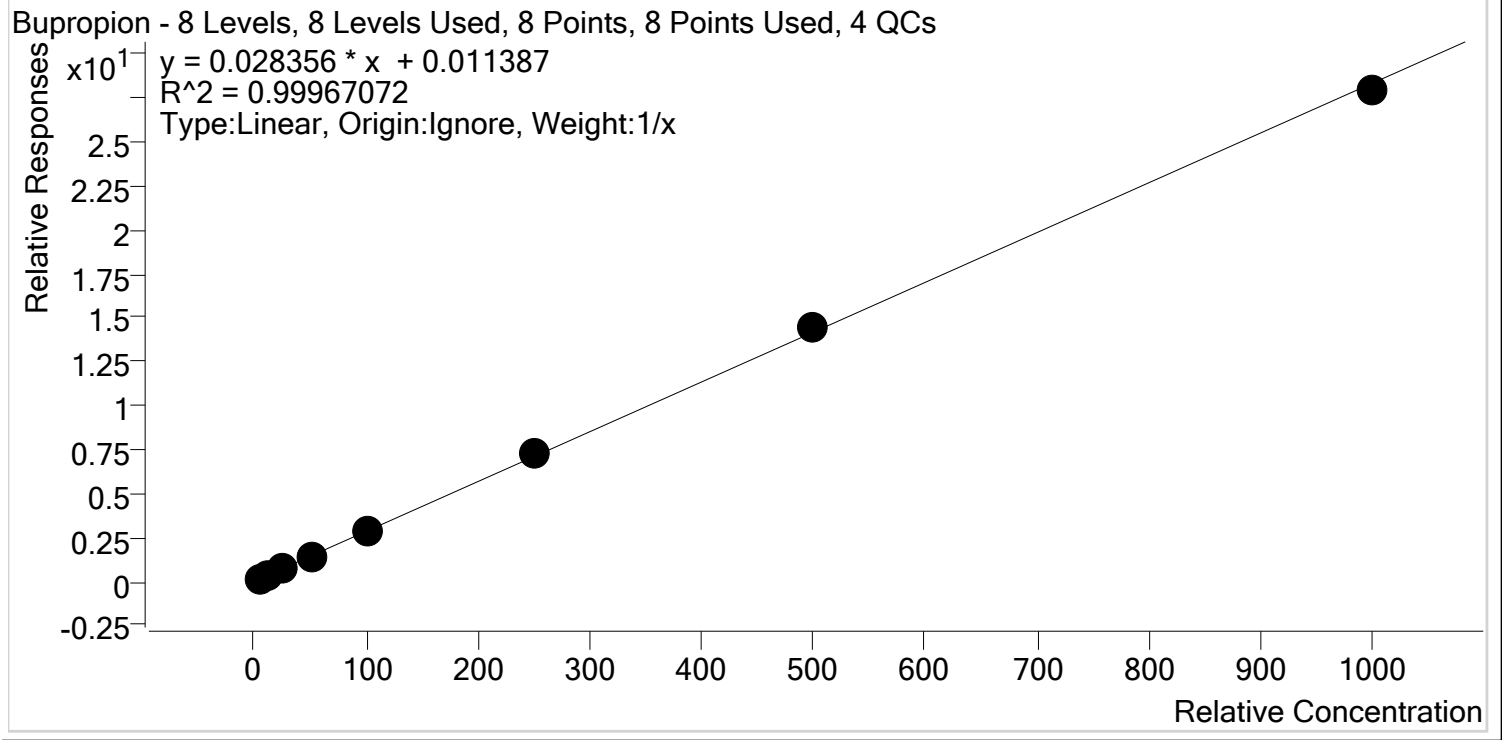


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	105.7
p1 Cal 2- 10ng	2	✓	1.0	0.9	88.5
p1 Cal 3 -25ng	3	✓	2.5	2.5	100.8
p1 Cal 4-50ng	4	✓	5.0	5.0	100.6
p1 Cal 5-100ng	5	✓	10.0	9.6	95.7
p1 Cal 6-250ng	6	✓	25.0	25.5	102.2
p1 Cal 7-500ng	7	✓	50.0	49.8	99.6
p1 Cal 8-1000ng	8	✓	100.0	106.9	106.9



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte Bupropion **Internal Standard** Bupropion-D9

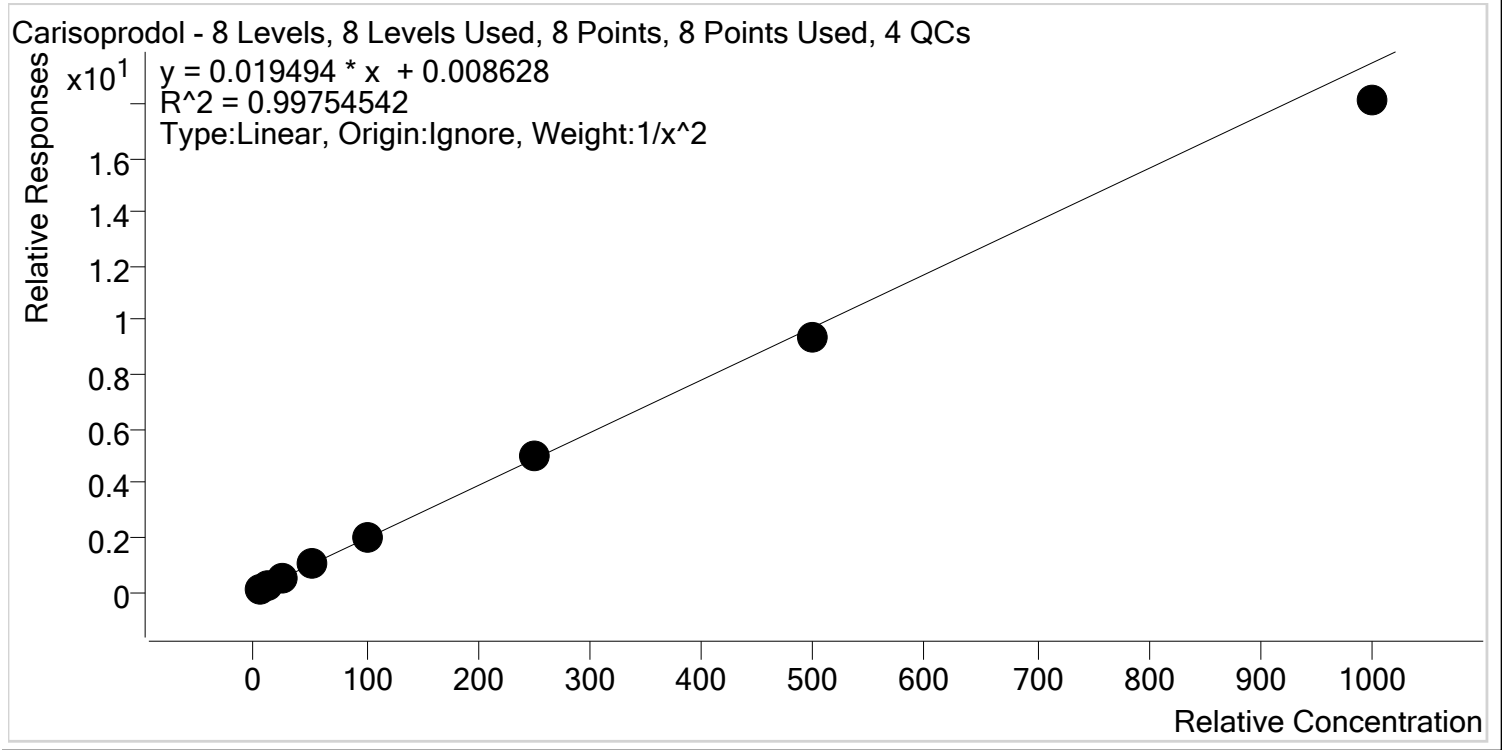


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.1
p1 Cal 2- 10ng	2	✓	10.0	9.9	98.8
p1 Cal 3 -25ng	3	✓	25.0	25.0	100.2
p1 Cal 4-50ng	4	✓	50.0	51.5	103.0
p1 Cal 5-100ng	5	✓	100.0	99.1	99.1
p1 Cal 6-250ng	6	✓	250.0	257.1	102.9
p1 Cal 7-500ng	7	✓	500.0	507.2	101.4
p1 Cal 8-1000ng	8	✓	1000.0	985.3	98.5



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte Carisoprodol **Internal Standard** Carisoprodol-D7

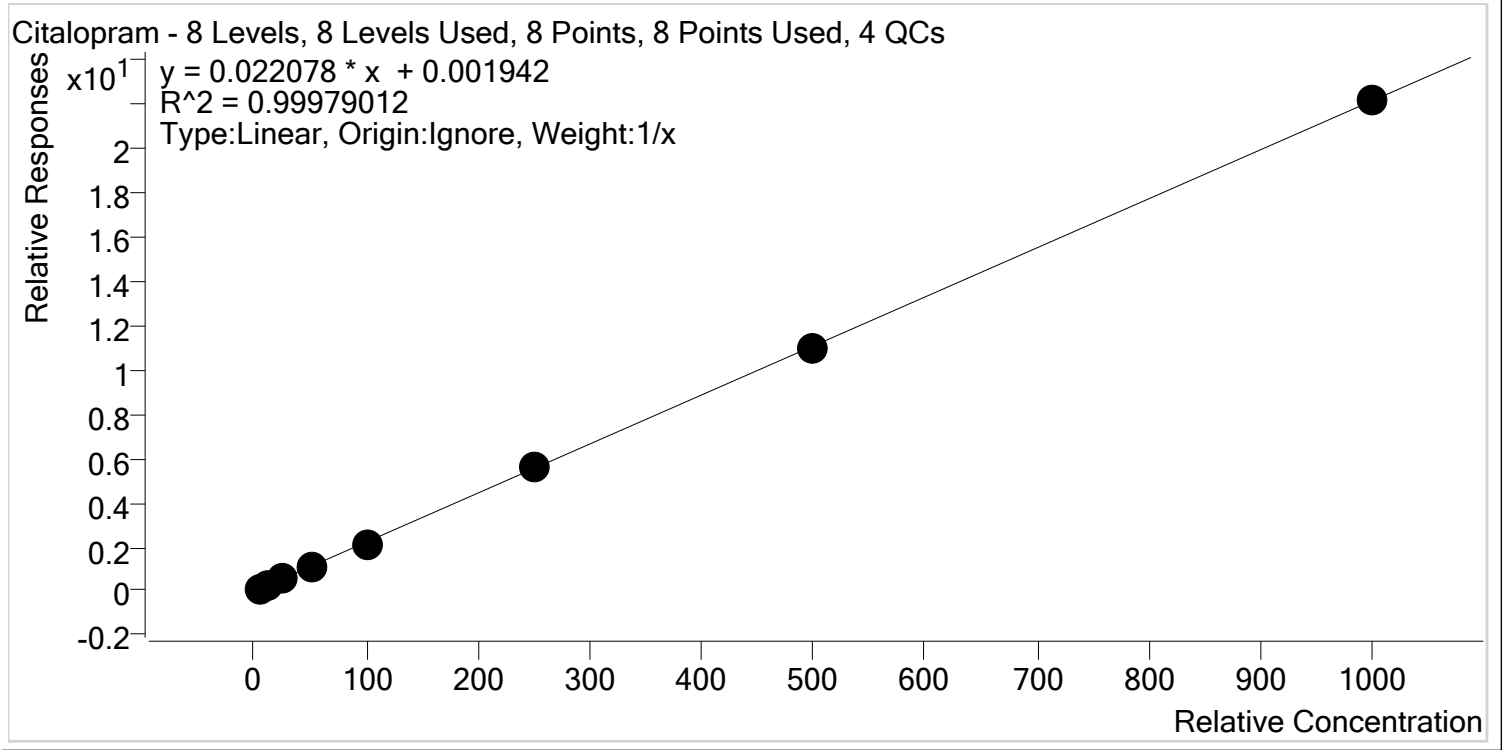


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.7
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.5
p1 Cal 3 -25ng	3	✓	25.0	25.4	101.5
p1 Cal 4-50ng	4	✓	50.0	53.4	106.8
p1 Cal 5-100ng	5	✓	100.0	102.0	102.0
p1 Cal 6-250ng	6	✓	250.0	255.3	102.1
p1 Cal 7-500ng	7	✓	500.0	477.6	95.5
p1 Cal 8-1000ng	8	✓	1000.0	928.6	92.9



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte Citalopram **Internal Standard** Citalopram-D6

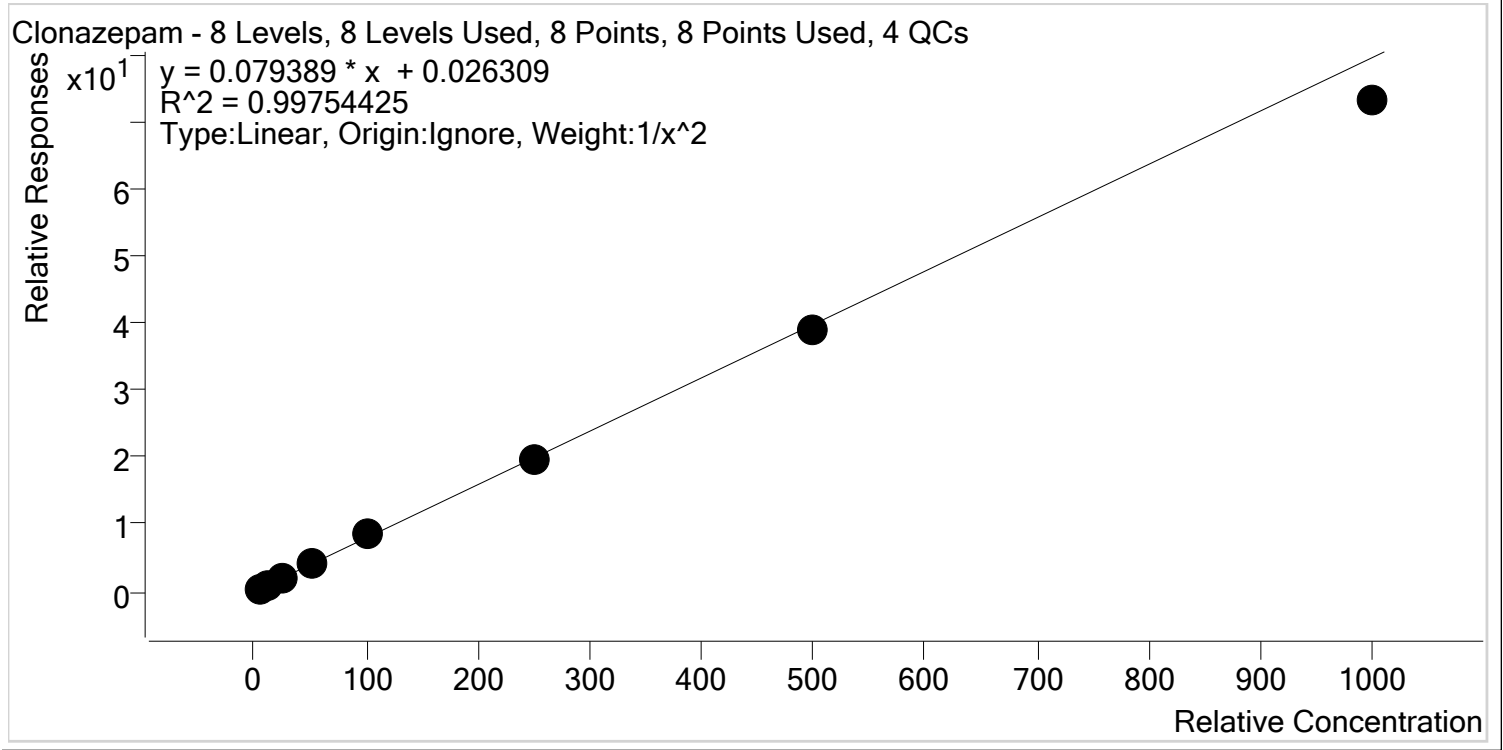


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.6
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.8
p1 Cal 3 -25ng	3	✓	25.0	24.7	98.7
p1 Cal 4-50ng	4	✓	50.0	51.8	103.5
p1 Cal 5-100ng	5	✓	100.0	97.9	97.9
p1 Cal 6-250ng	6	✓	250.0	256.7	102.7
p1 Cal 7-500ng	7	✓	500.0	493.6	98.7
p1 Cal 8-1000ng	8	✓	1000.0	1000.4	100.0



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte Clonazepam **Internal Standard** Clonazepam-D4

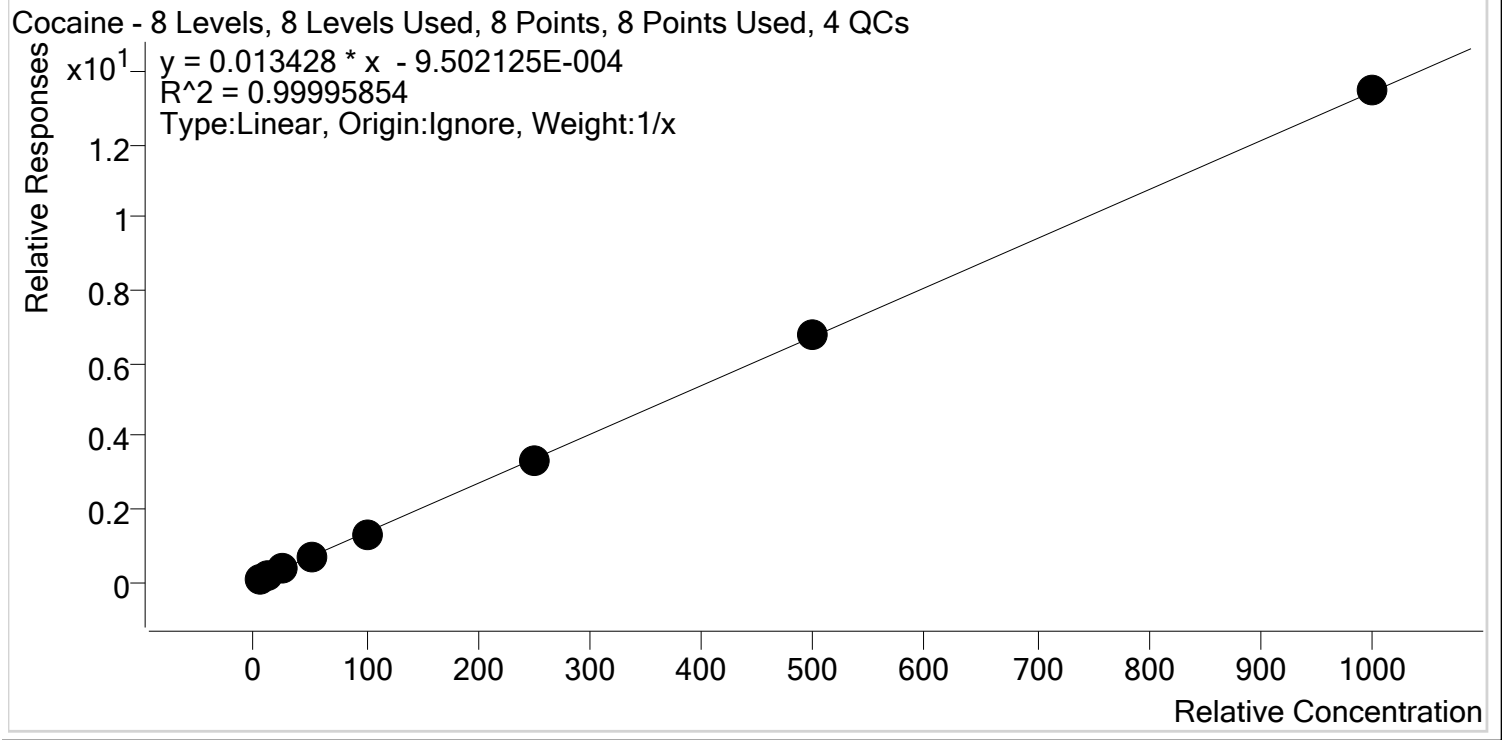


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.0
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.3
p1 Cal 3 -25ng	3	✓	25.0	25.2	100.7
p1 Cal 4-50ng	4	✓	50.0	52.6	105.1
p1 Cal 5-100ng	5	✓	100.0	104.9	104.9
p1 Cal 6-250ng	6	✓	250.0	247.2	98.9
p1 Cal 7-500ng	7	✓	500.0	490.4	98.1
p1 Cal 8-1000ng	8	✓	1000.0	919.5	92.0



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte Cocaine **Internal Standard** Cocaine-d3

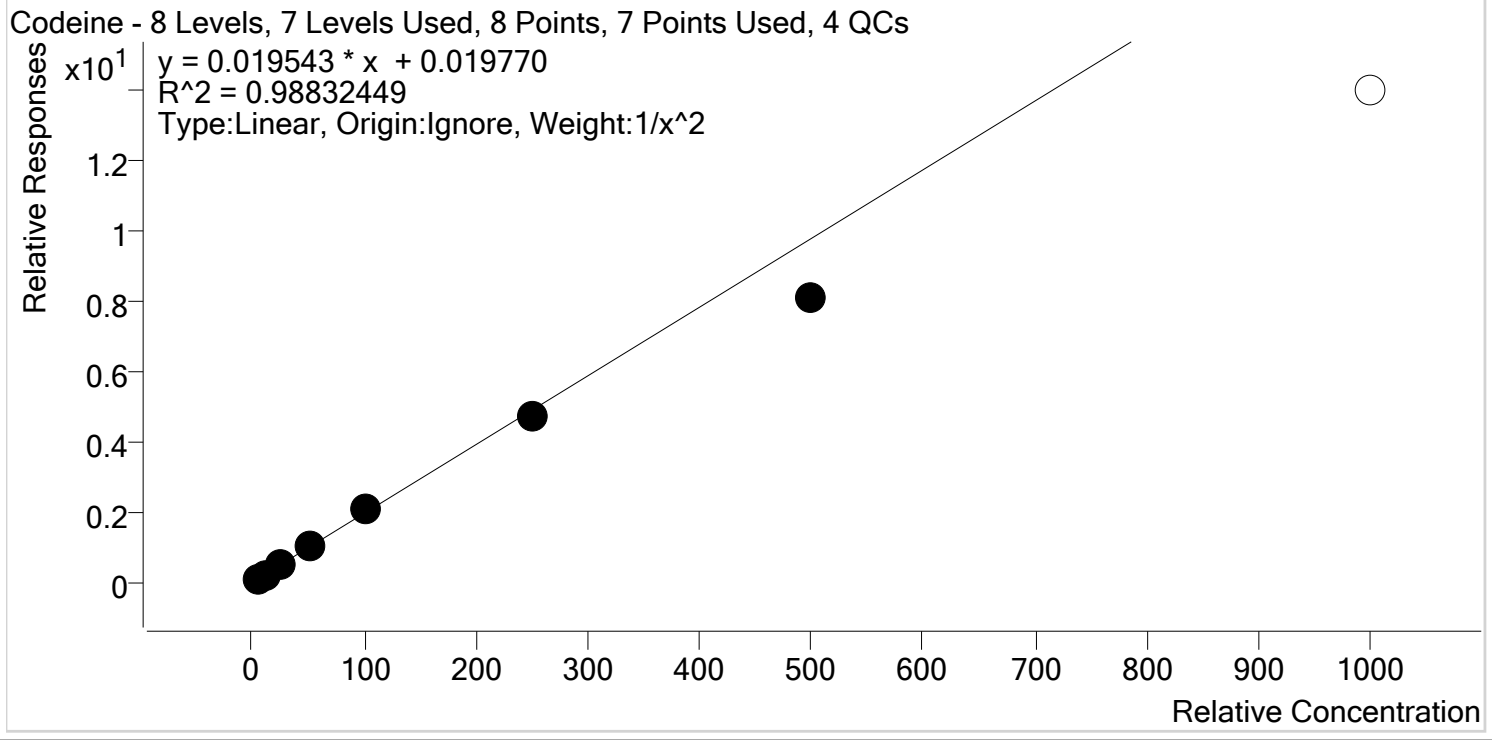


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.2	103.7
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.3
p1 Cal 3 -25ng	3	✓	25.0	24.9	99.7
p1 Cal 4-50ng	4	✓	50.0	49.8	99.6
p1 Cal 5-100ng	5	✓	100.0	97.7	97.7
p1 Cal 6-250ng	6	✓	250.0	249.3	99.7
p1 Cal 7-500ng	7	✓	500.0	500.4	100.1
p1 Cal 8-1000ng	8	✓	1000.0	1002.8	100.3



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte Codeine **Internal Standard** Codeine-D6

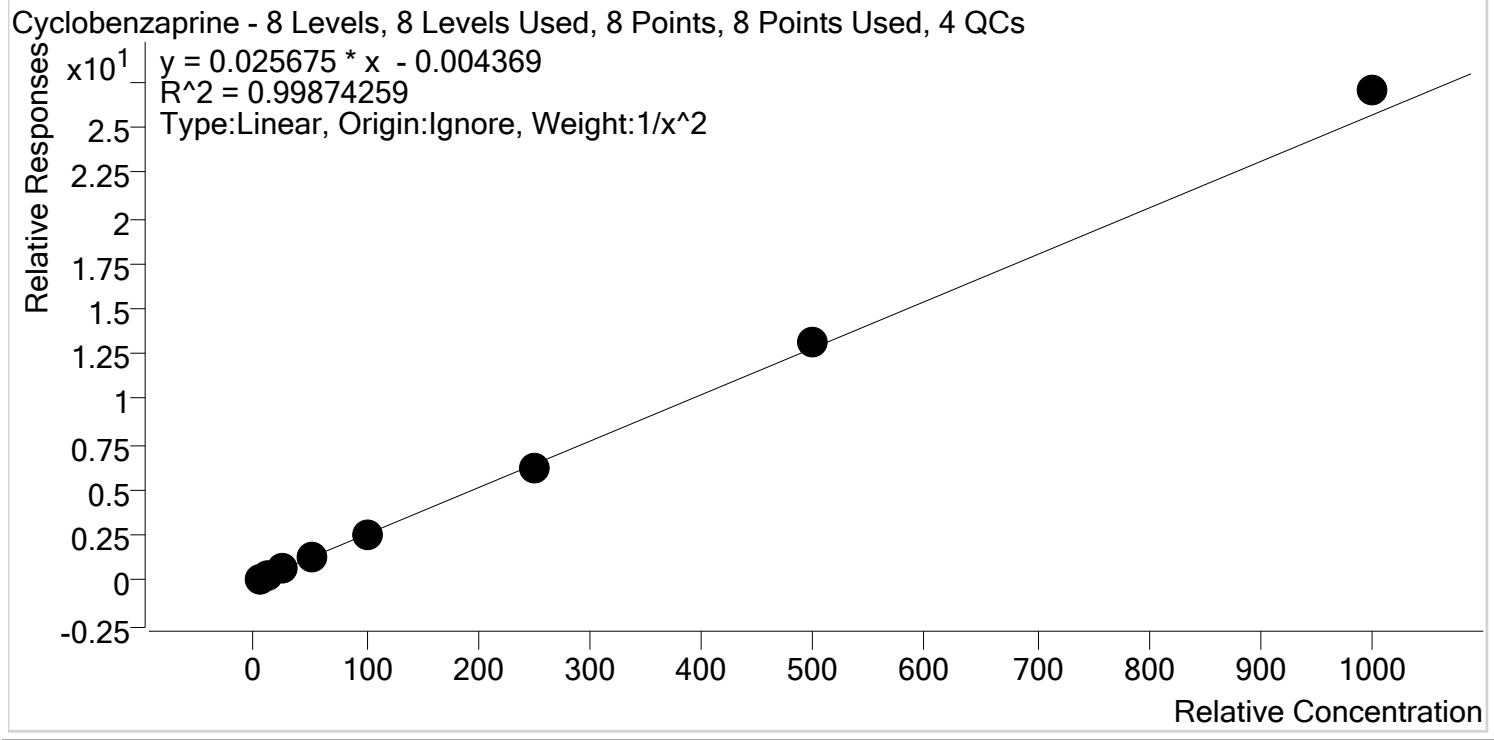


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.1
p1 Cal 2- 10ng	2	✓	10.0	10.3	102.5
p1 Cal 3 -25ng	3	✓	25.0	27.1	108.3
p1 Cal 4-50ng	4	✓	50.0	54.9	109.8
p1 Cal 5-100ng	5	✓	100.0	104.2	104.2
p1 Cal 6-250ng	6	✓	250.0	240.0	96.0
p1 Cal 7-500ng	7	✓	500.0	415.3	83.1
p1 Cal 8-1000ng	8	✗	1000.0	715.2	71.5



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte Cyclobenzaprine **Internal Standard** Cyclobenzaprine-D3

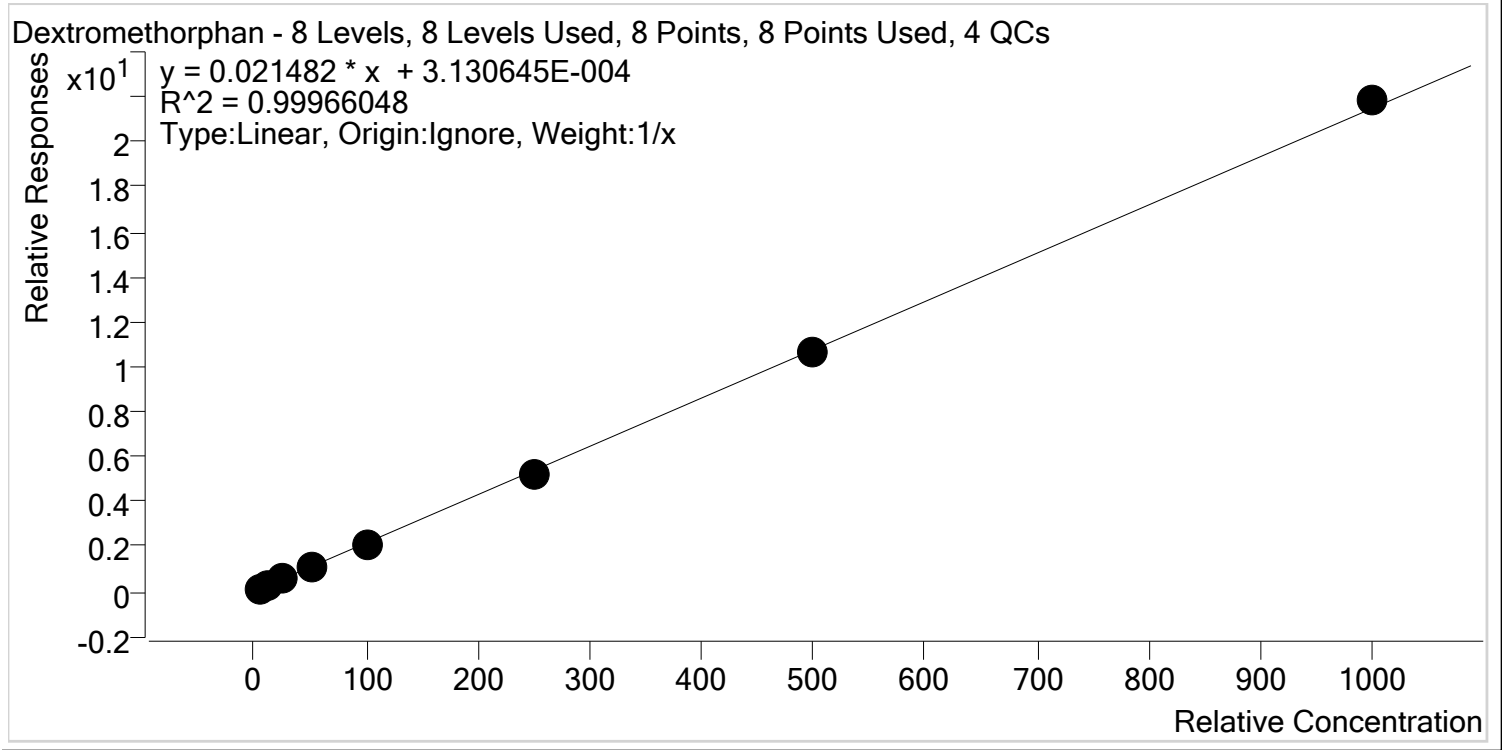


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.5
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.4
p1 Cal 3 -25ng	3	✓	25.0	23.8	95.0
p1 Cal 4-50ng	4	✓	50.0	49.4	98.8
p1 Cal 5-100ng	5	✓	100.0	98.2	98.2
p1 Cal 6-250ng	6	✓	250.0	246.2	98.5
p1 Cal 7-500ng	7	✓	500.0	511.6	102.3
p1 Cal 8-1000ng	8	✓	1000.0	1052.3	105.2



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte Dextromethorphan **Internal Standard** Dextromethorphan-D3

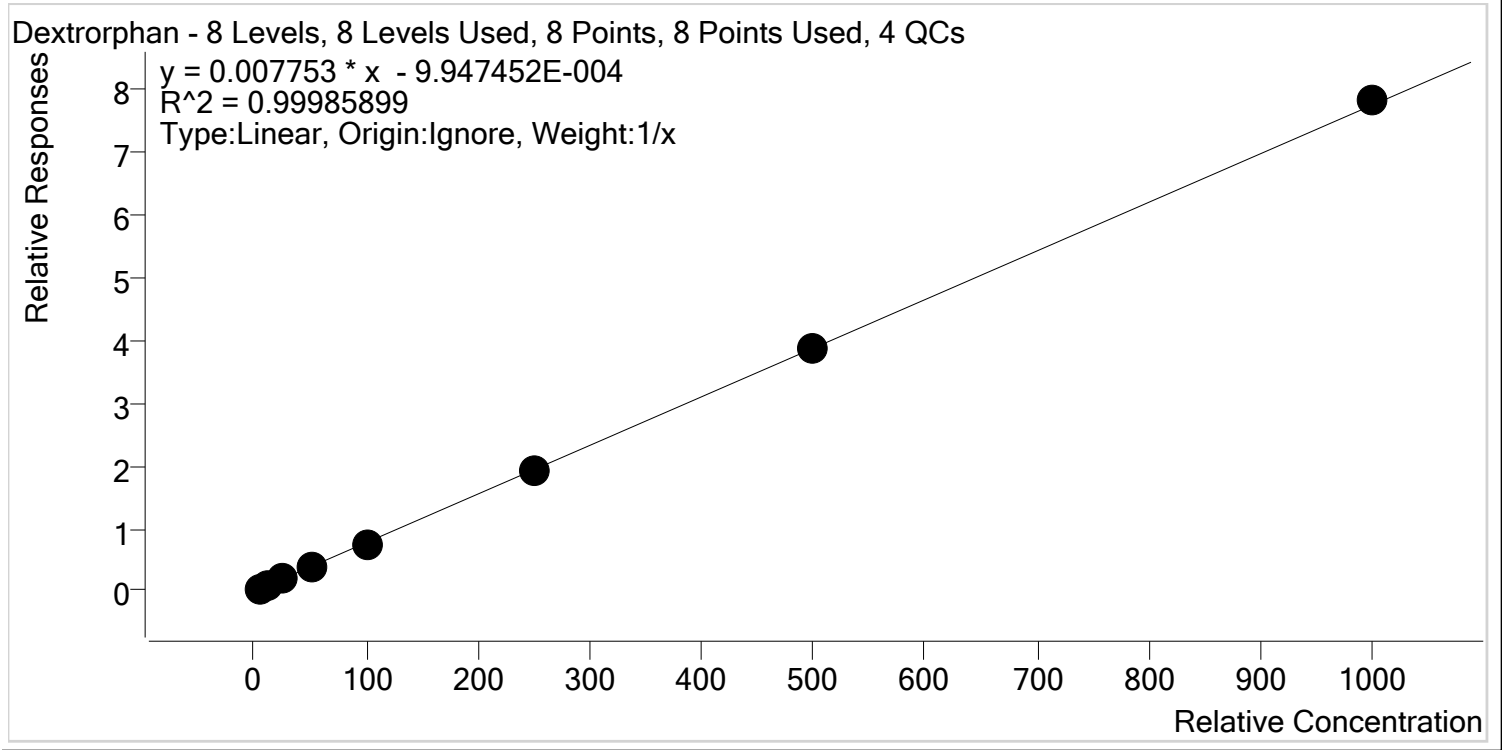


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	102.1
p1 Cal 2- 10ng	2	✓	10.0	10.3	102.9
p1 Cal 3 -25ng	3	✓	25.0	24.9	99.7
p1 Cal 4-50ng	4	✓	50.0	50.0	100.1
p1 Cal 5-100ng	5	✓	100.0	97.5	97.5
p1 Cal 6-250ng	6	✓	250.0	244.5	97.8
p1 Cal 7-500ng	7	✓	500.0	491.5	98.3
p1 Cal 8-1000ng	8	✓	1000.0	1016.2	101.6



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte Dextrophan Internal Standard Dextrophan-D3

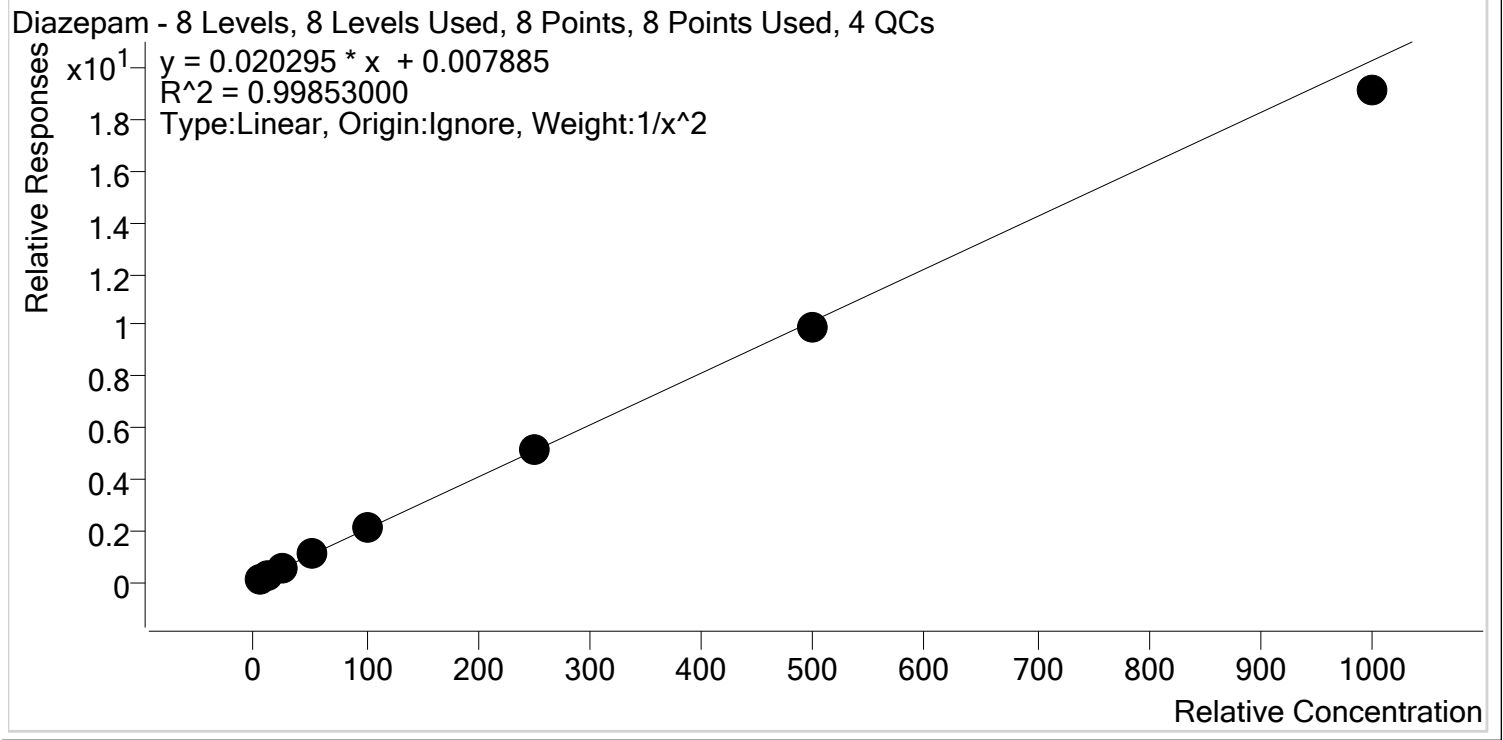


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.2	103.5
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.1
p1 Cal 3 -25ng	3	✓	25.0	24.3	97.3
p1 Cal 4-50ng	4	✓	50.0	50.3	100.6
p1 Cal 5-100ng	5	✓	100.0	97.6	97.6
p1 Cal 6-250ng	6	✓	250.0	246.8	98.7
p1 Cal 7-500ng	7	✓	500.0	496.2	99.2
p1 Cal 8-1000ng	8	✓	1000.0	1009.4	100.9



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte Diazepam **Internal Standard** Diazepam-D5

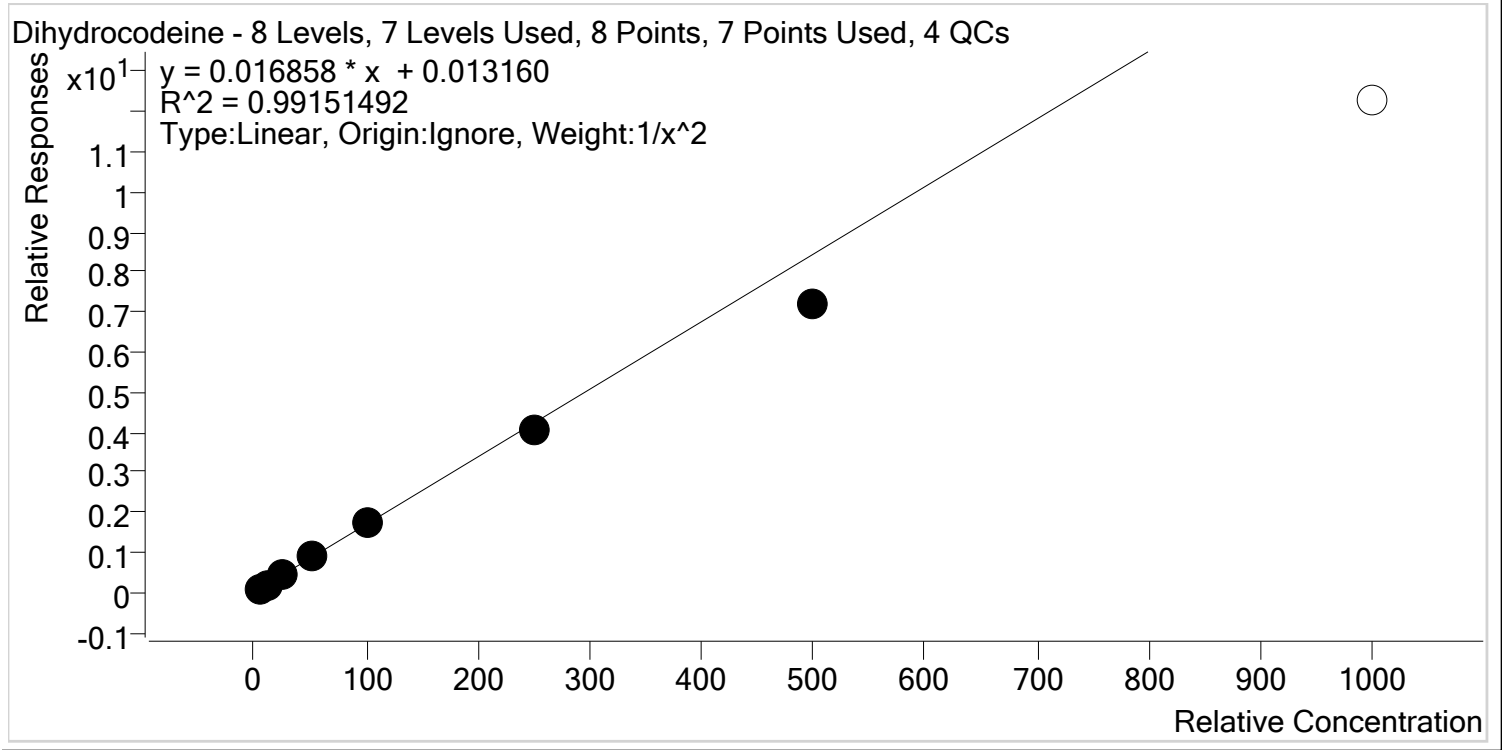


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.6
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.8
p1 Cal 3 -25ng	3	✓	25.0	24.9	99.8
p1 Cal 4-50ng	4	✓	50.0	52.8	105.6
p1 Cal 5-100ng	5	✓	100.0	101.2	101.2
p1 Cal 6-250ng	6	✓	250.0	253.1	101.2
p1 Cal 7-500ng	7	✓	500.0	488.5	97.7
p1 Cal 8-1000ng	8	✓	1000.0	942.3	94.2



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte Dihydrocodeine **Internal Standard** Dihydrocodeine-D6

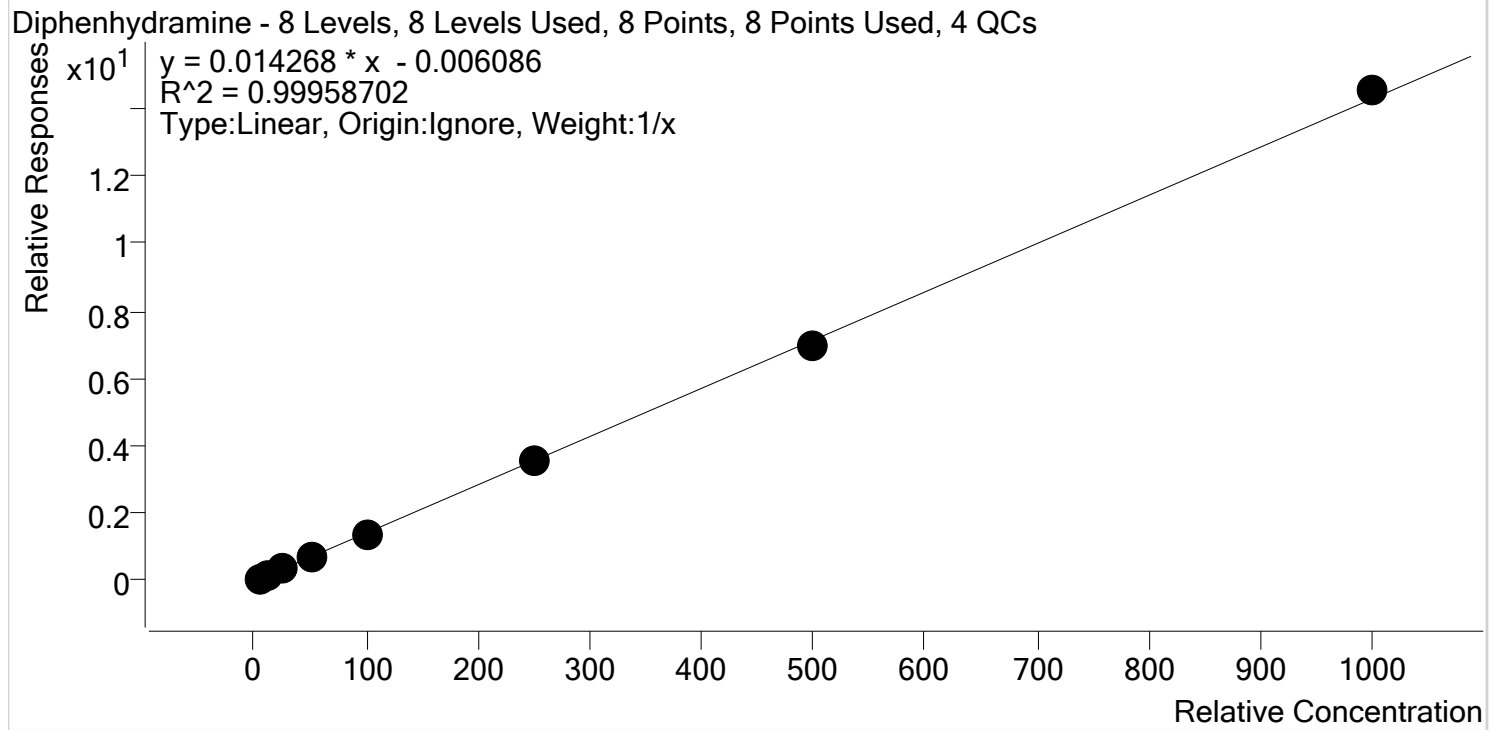


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.0
p1 Cal 2- 10ng	2	✓	10.0	10.4	103.5
p1 Cal 3 -25ng	3	✓	25.0	27.0	107.8
p1 Cal 4-50ng	4	✓	50.0	53.8	107.6
p1 Cal 5-100ng	5	✓	100.0	102.3	102.3
p1 Cal 6-250ng	6	✓	250.0	242.5	97.0
p1 Cal 7-500ng	7	✓	500.0	428.5	85.7
p1 Cal 8-1000ng	8	✗	1000.0	727.3	72.7



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte Diphenhydramine **Internal Standard** Diphenhydramine-D3

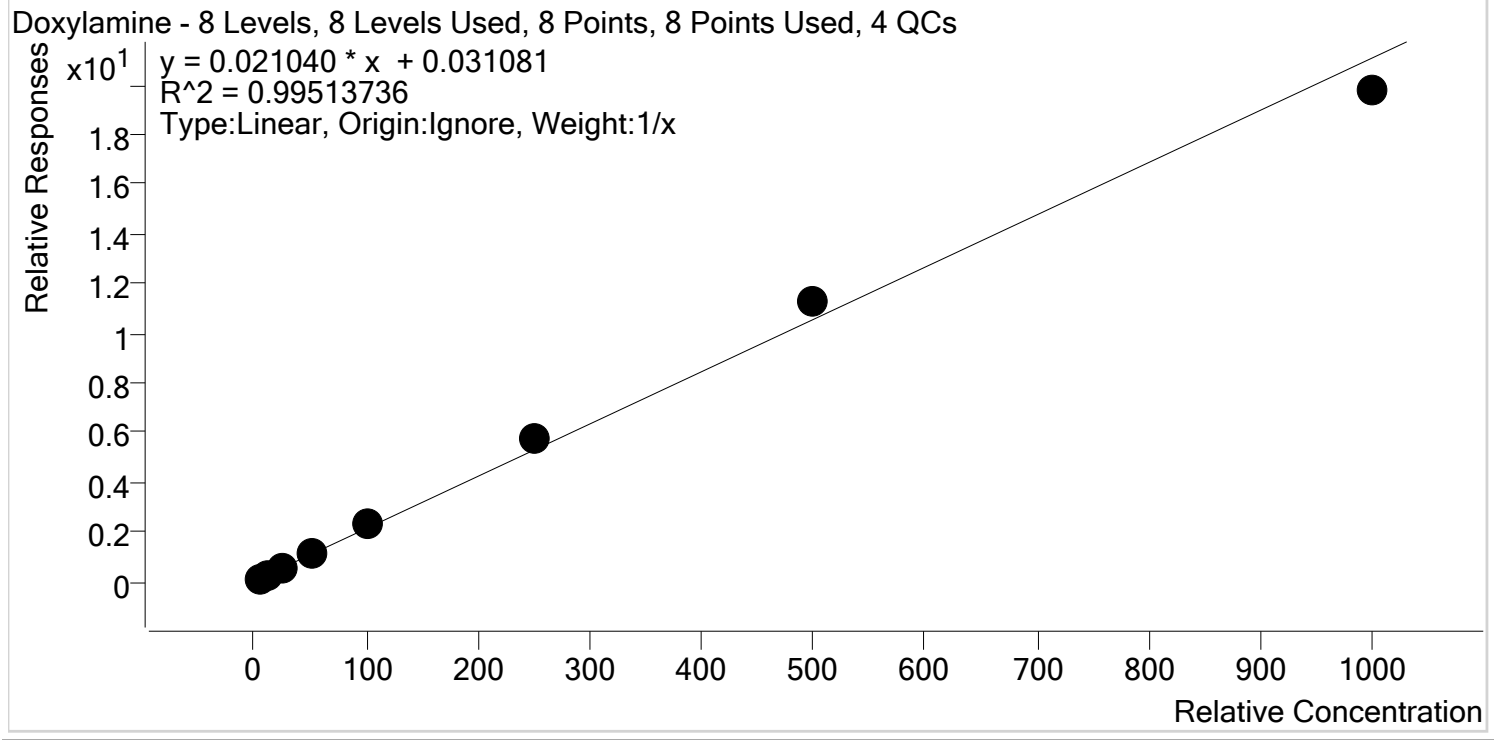


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.3	106.1
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.4
p1 Cal 3 -25ng	3	✓	25.0	24.5	97.9
p1 Cal 4-50ng	4	✓	50.0	49.7	99.5
p1 Cal 5-100ng	5	✓	100.0	96.5	96.5
p1 Cal 6-250ng	6	✓	250.0	248.0	99.2
p1 Cal 7-500ng	7	✓	500.0	488.6	97.7
p1 Cal 8-1000ng	8	✓	1000.0	1017.3	101.7



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte Doxylamine **Internal Standard** Doxylamine-D5

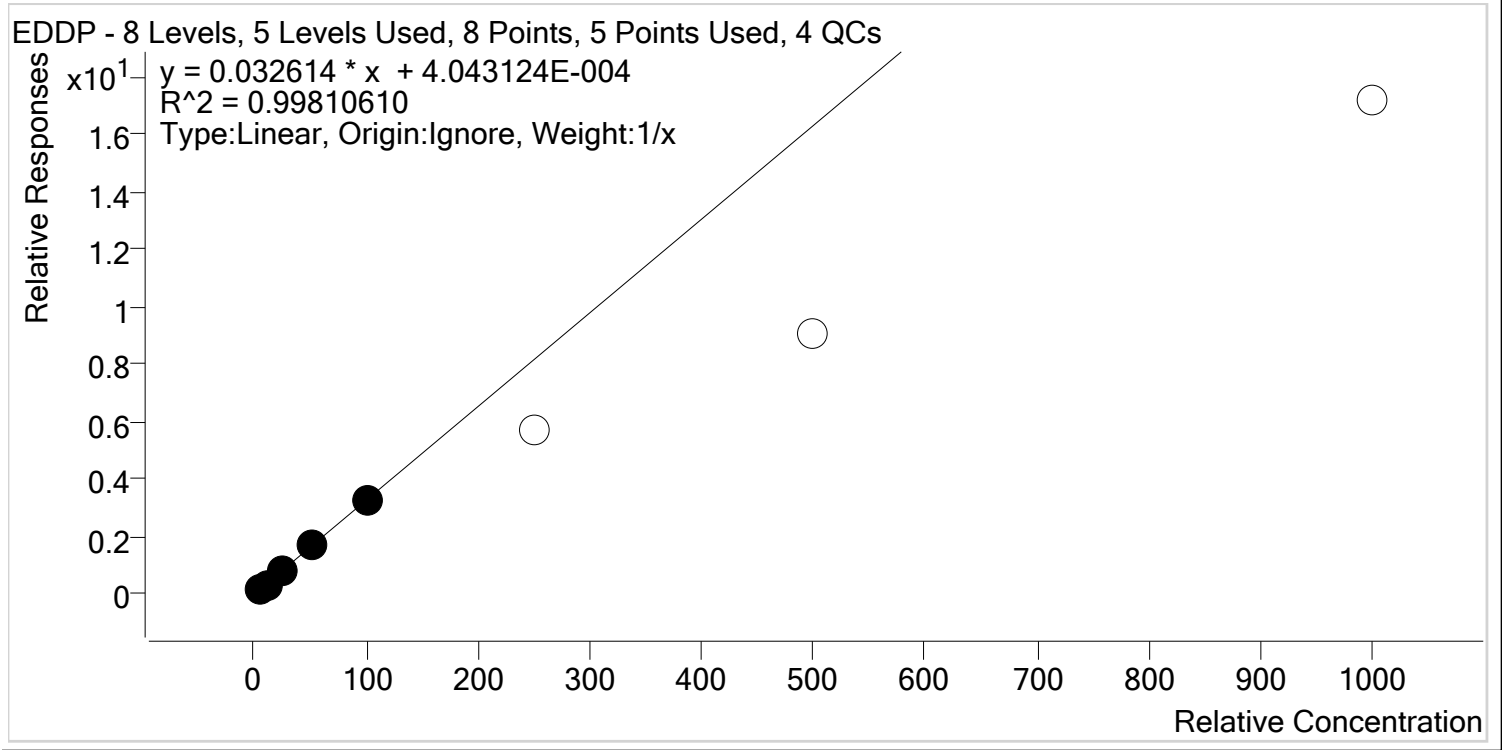


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.2	83.2
p1 Cal 2- 10ng	2	✓	10.0	9.4	94.1
p1 Cal 3 -25ng	3	✓	25.0	25.5	102.0
p1 Cal 4-50ng	4	✓	50.0	52.8	105.6
p1 Cal 5-100ng	5	✓	100.0	105.9	105.9
p1 Cal 6-250ng	6	✓	250.0	272.4	109.0
p1 Cal 7-500ng	7	✓	500.0	532.1	106.4
p1 Cal 8-1000ng	8	✓	1000.0	937.7	93.8



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte EDDP **Internal Standard** EDDP-D3

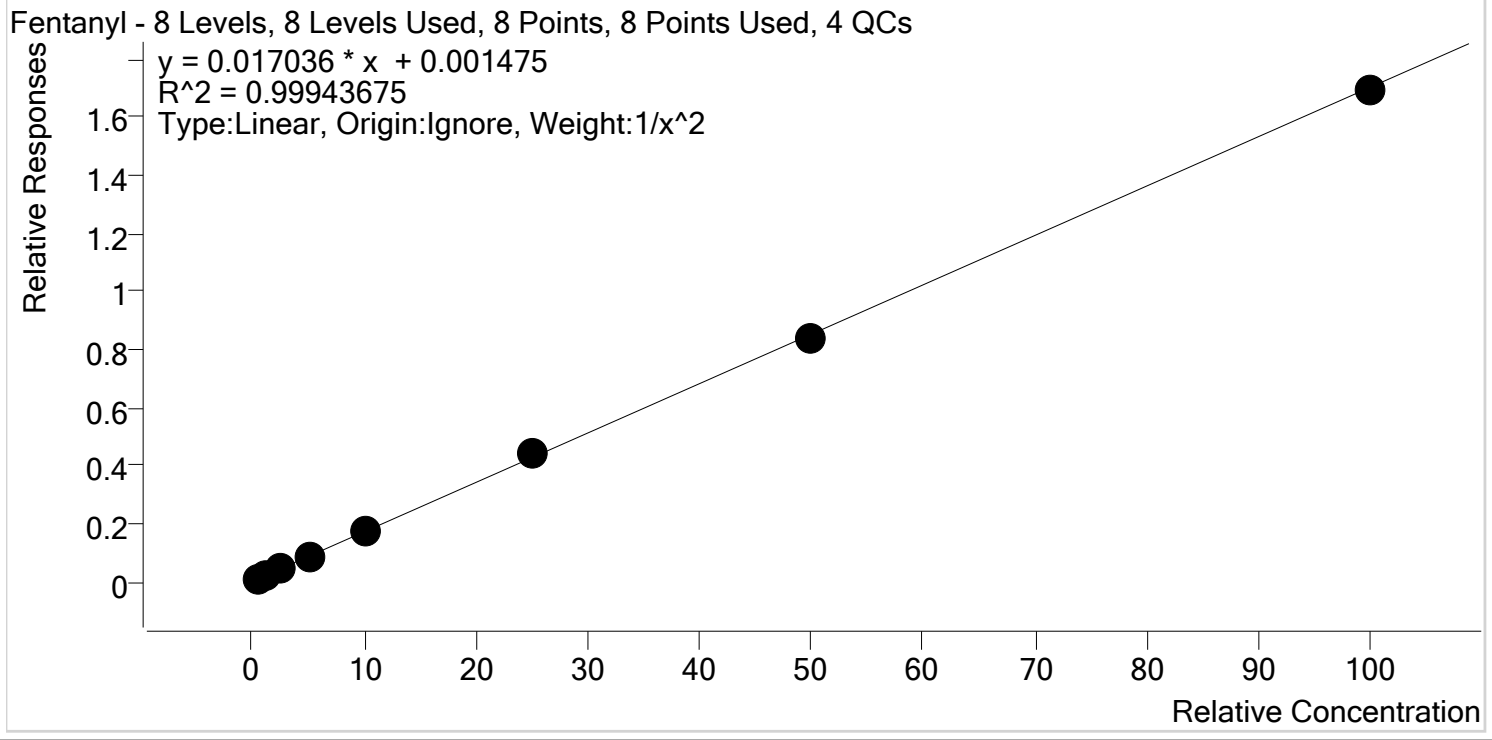


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.5	110.6
p1 Cal 2- 10ng	2	✓	10.0	8.8	88.4
p1 Cal 3 -25ng	3	✓	25.0	24.7	98.8
p1 Cal 4-50ng	4	✓	50.0	51.3	102.7
p1 Cal 5-100ng	5	✓	100.0	99.6	99.6
p1 Cal 6-250ng	6	✗	250.0	174.6	69.9
p1 Cal 7-500ng	7	✗	500.0	279.1	55.8
p1 Cal 8-1000ng	8	✗	1000.0	526.6	52.7



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte Fentanyl **Internal Standard** Fentanyl-D5

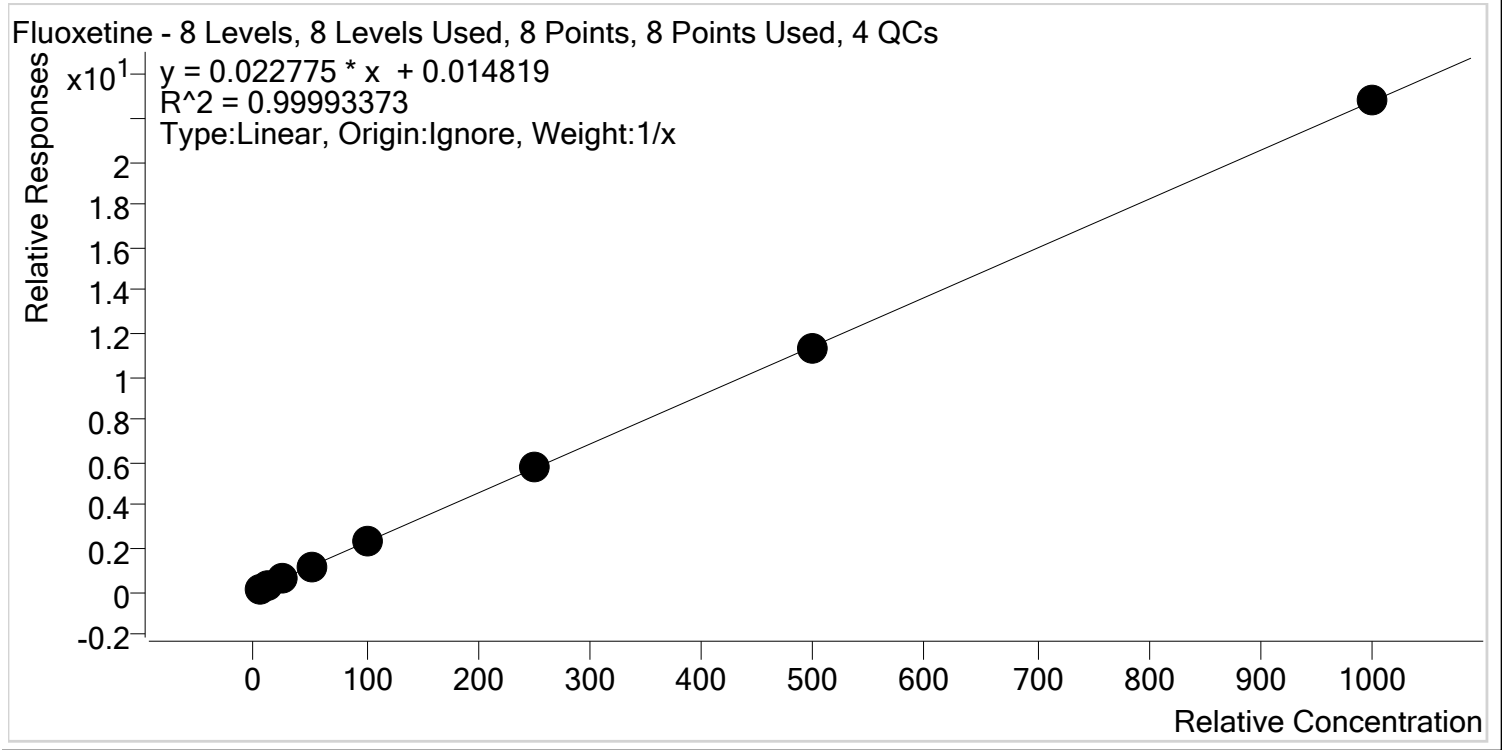


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	99.7
p1 Cal 2- 10ng	2	✓	1.0	1.0	101.8
p1 Cal 3 -25ng	3	✓	2.5	2.4	96.4
p1 Cal 4-50ng	4	✓	5.0	5.0	99.9
p1 Cal 5-100ng	5	✓	10.0	10.2	101.5
p1 Cal 6-250ng	6	✓	25.0	25.7	102.9
p1 Cal 7-500ng	7	✓	50.0	49.2	98.4
p1 Cal 8-1000ng	8	✓	100.0	99.3	99.3



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte Fluoxetine **Internal Standard** Fluoxetine-D6

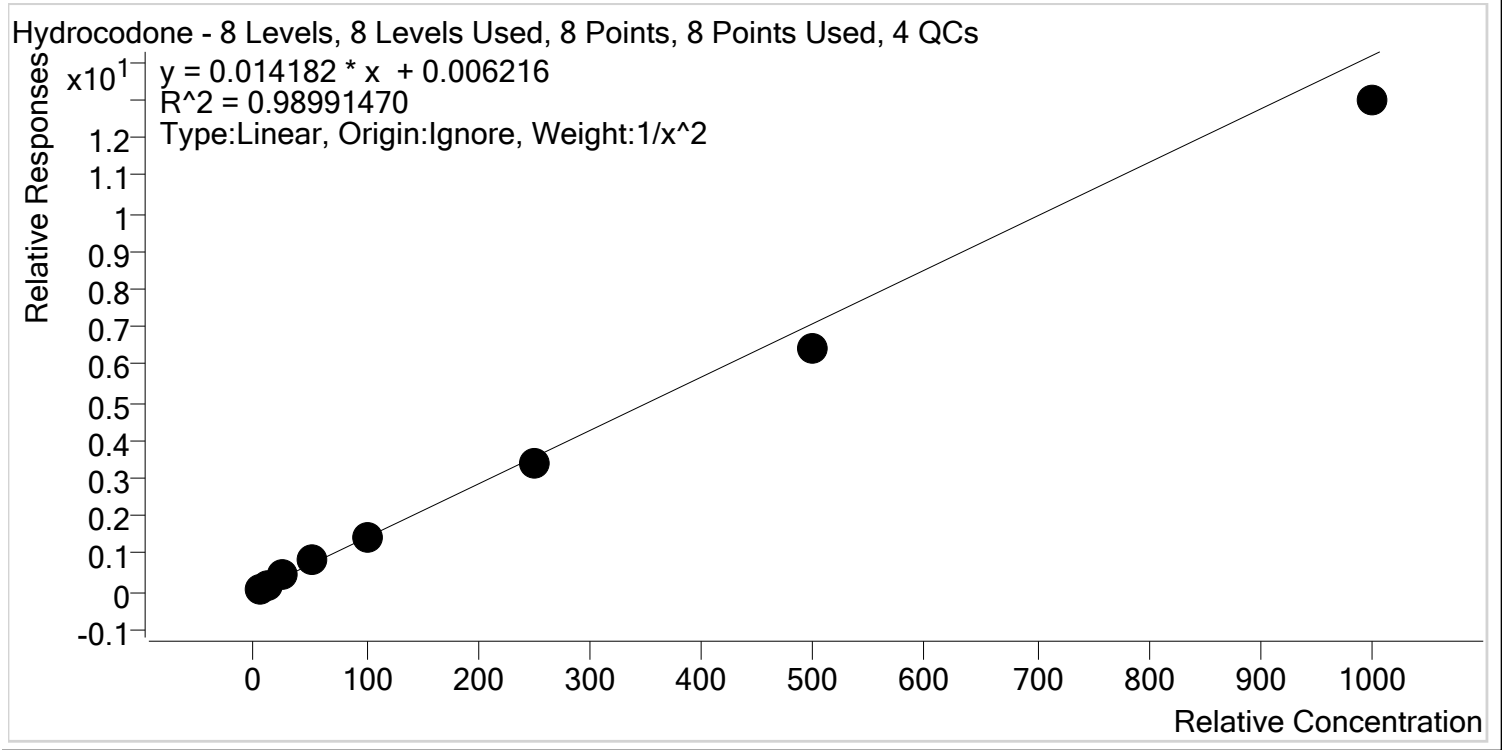


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	94.2
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.4
p1 Cal 3 -25ng	3	✓	25.0	26.1	104.2
p1 Cal 4-50ng	4	✓	50.0	50.9	101.7
p1 Cal 5-100ng	5	✓	100.0	99.7	99.7
p1 Cal 6-250ng	6	✓	250.0	251.0	100.4
p1 Cal 7-500ng	7	✓	500.0	495.9	99.2
p1 Cal 8-1000ng	8	✓	1000.0	1001.7	100.2



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte Hydrocodone **Internal Standard** Hydrocodone-D6

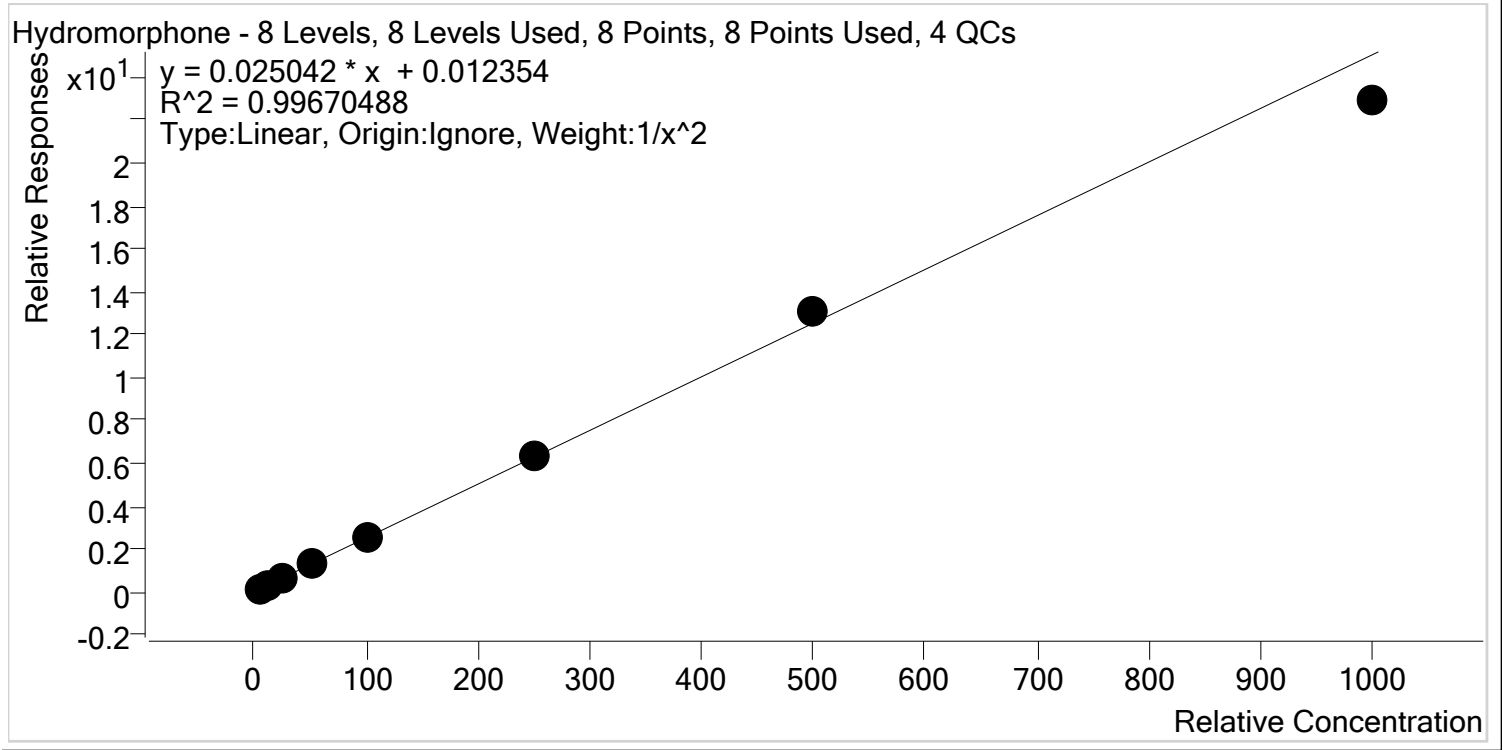


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.2
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.5
p1 Cal 3 -25ng	3	✓	25.0	28.1	112.2
p1 Cal 4-50ng	4	✓	50.0	57.1	114.1
p1 Cal 5-100ng	5	✓	100.0	98.5	98.5
p1 Cal 6-250ng	6	✓	250.0	239.9	96.0
p1 Cal 7-500ng	7	✓	500.0	454.4	90.9
p1 Cal 8-1000ng	8	✓	1000.0	915.8	91.6



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte Hydromorphone **Internal Standard** Hydromorphone-D6

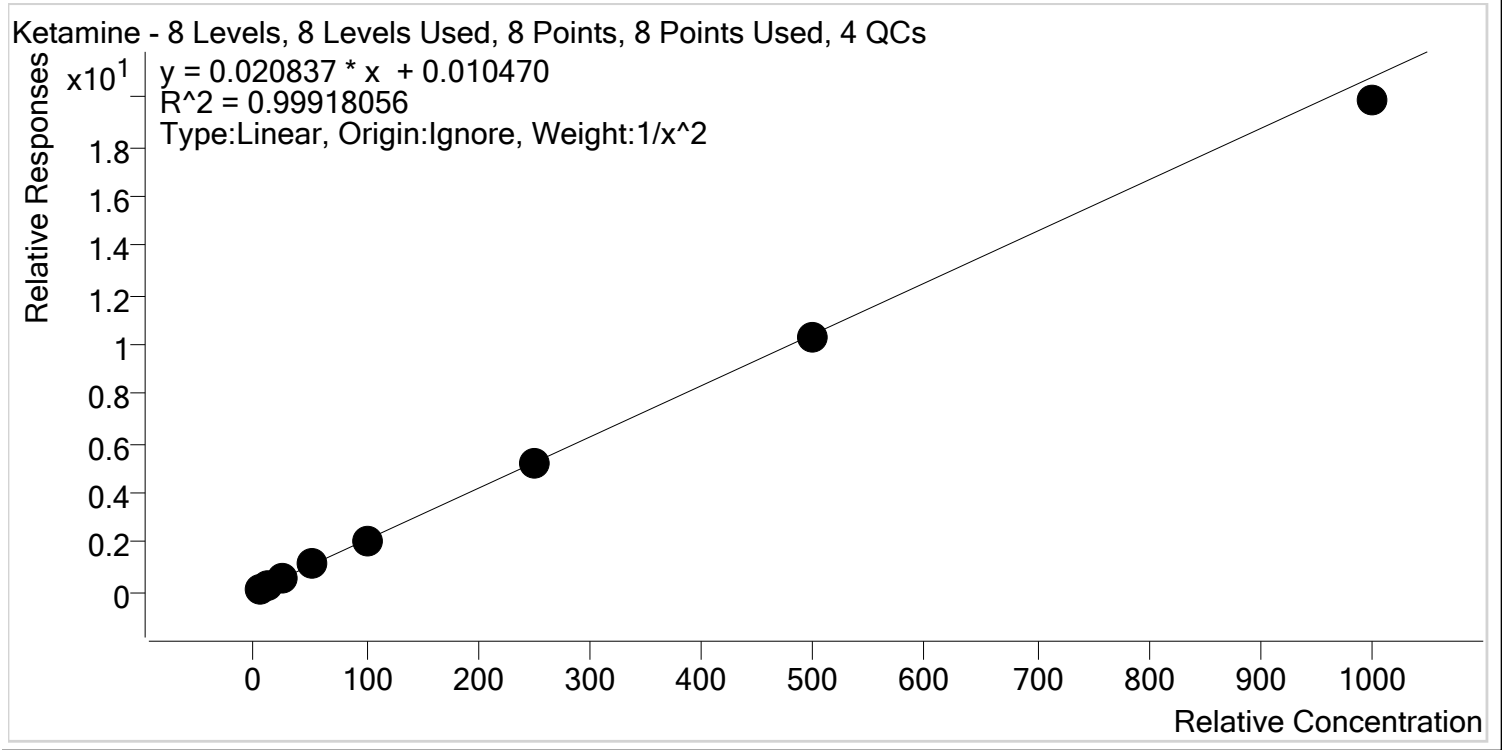


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.4
p1 Cal 2- 10ng	2	✓	10.0	9.5	94.9
p1 Cal 3 -25ng	3	✓	25.0	25.9	103.5
p1 Cal 4-50ng	4	✓	50.0	52.7	105.4
p1 Cal 5-100ng	5	✓	100.0	97.3	97.3
p1 Cal 6-250ng	6	✓	250.0	253.3	101.3
p1 Cal 7-500ng	7	✓	500.0	523.6	104.7
p1 Cal 8-1000ng	8	✓	1000.0	914.7	91.5



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte Ketamine **Internal Standard** Ketamine-D4

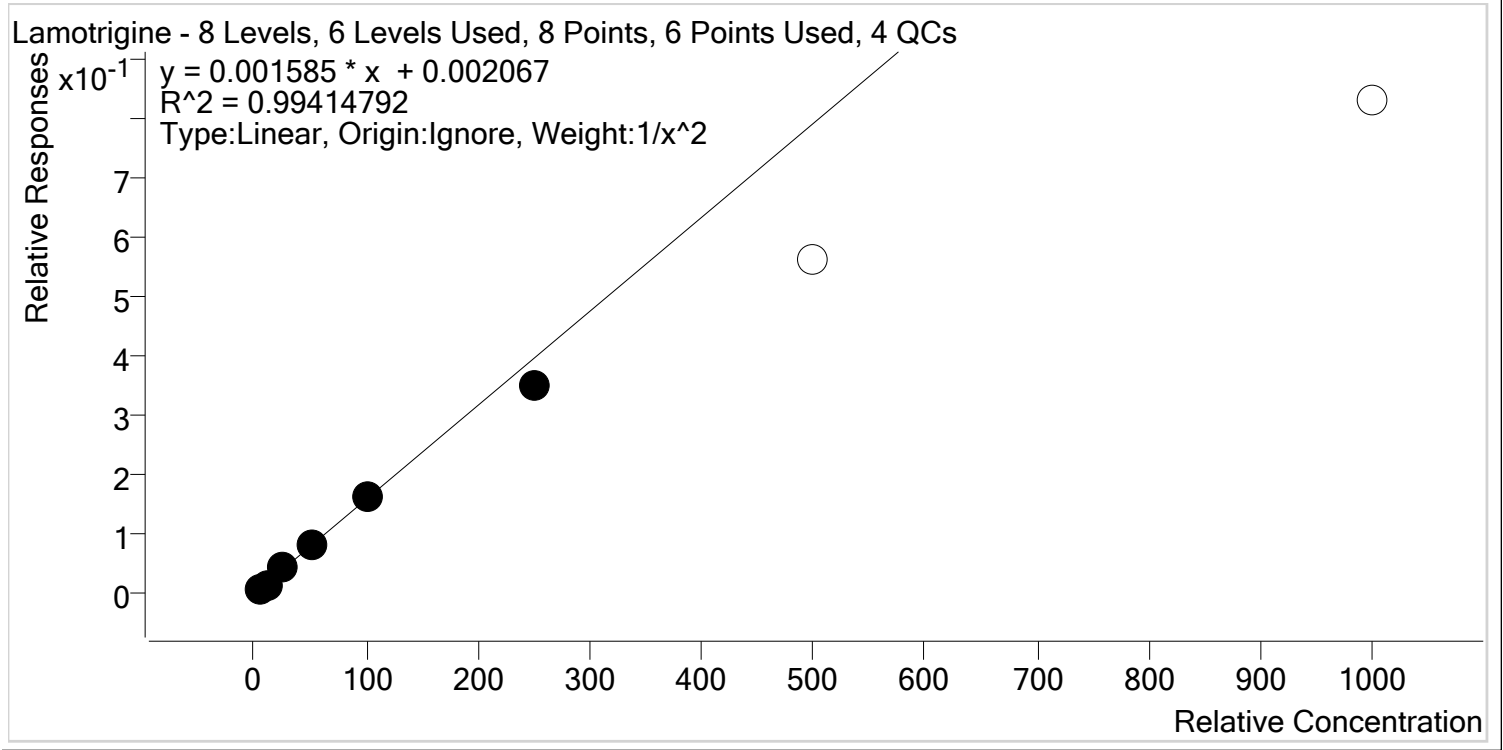


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.6
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.3
p1 Cal 3 -25ng	3	✓	25.0	25.5	102.0
p1 Cal 4-50ng	4	✓	50.0	51.7	103.3
p1 Cal 5-100ng	5	✓	100.0	100.6	100.6
p1 Cal 6-250ng	6	✓	250.0	251.1	100.4
p1 Cal 7-500ng	7	✓	500.0	491.1	98.2
p1 Cal 8-1000ng	8	✓	1000.0	954.5	95.4



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte Lamotrigine **Internal Standard** Ketamine-D4

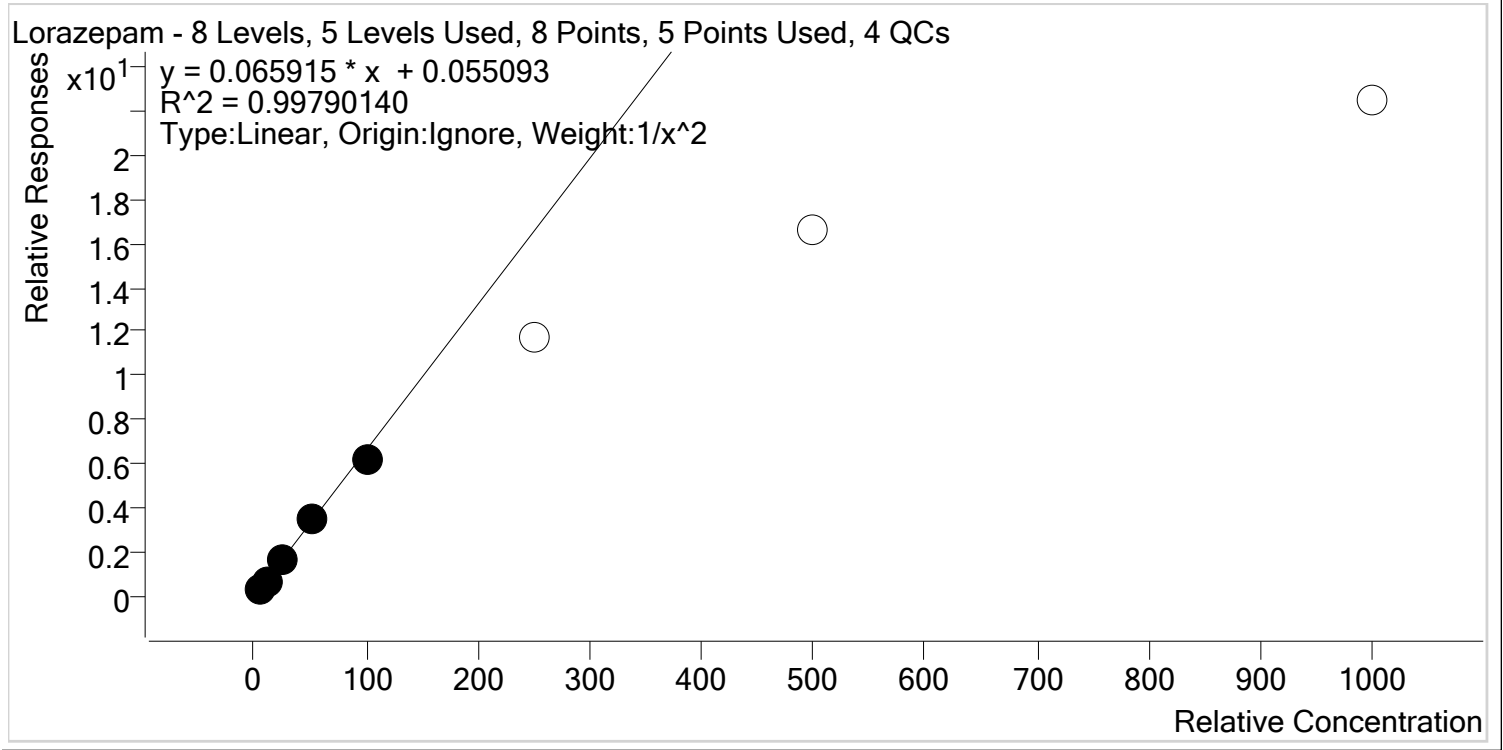


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.2
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.7
p1 Cal 3 -25ng	3	✓	25.0	26.5	105.9
p1 Cal 4-50ng	4	✓	50.0	52.0	104.1
p1 Cal 5-100ng	5	✓	100.0	102.7	102.7
p1 Cal 6-250ng	6	✓	250.0	221.2	88.5
p1 Cal 7-500ng	7	✗	500.0	357.1	71.4
p1 Cal 8-1000ng	8	✗	1000.0	524.3	52.4



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte Lorazepam **Internal Standard** Clonazepam-D4

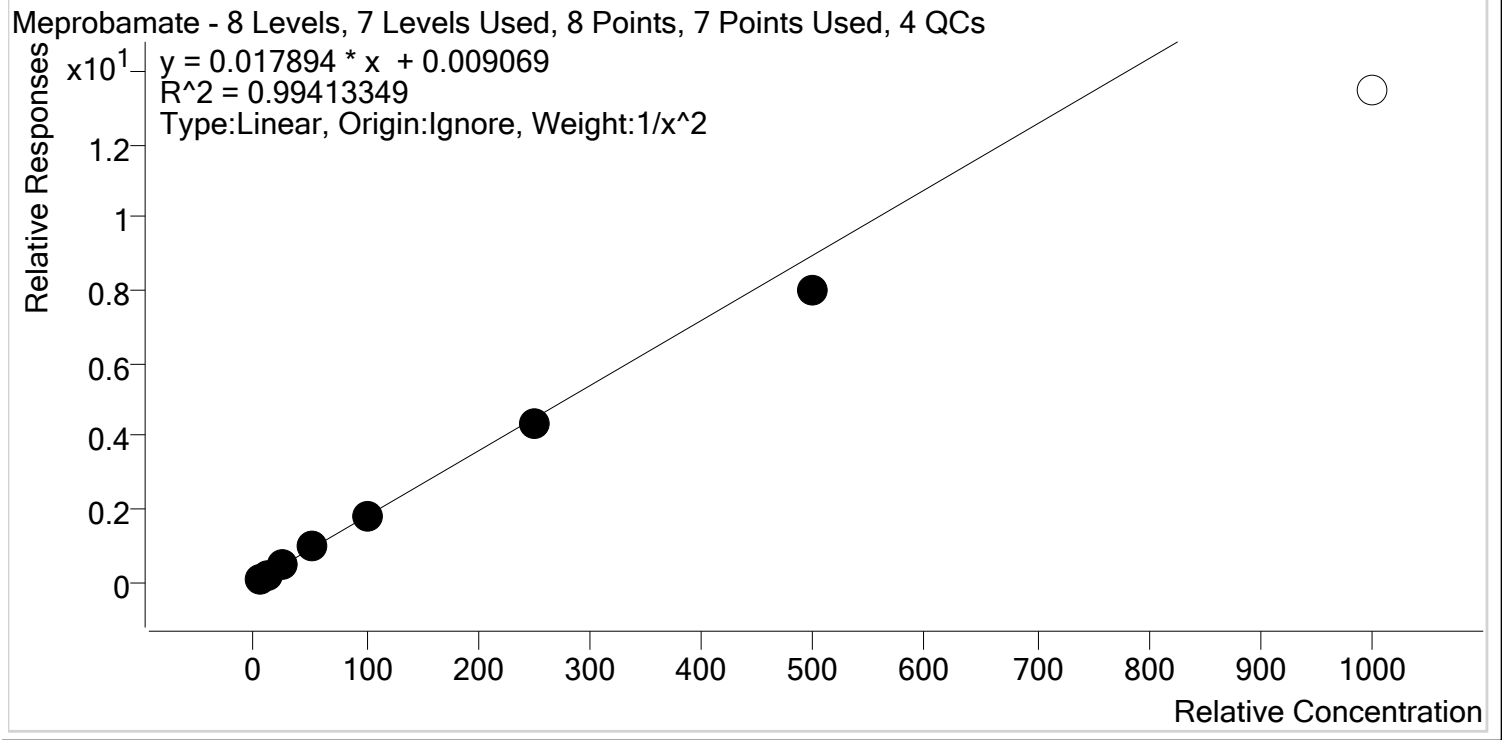


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.3
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.1
p1 Cal 3 -25ng	3	✓	25.0	25.7	102.8
p1 Cal 4-50ng	4	✓	50.0	51.6	103.3
p1 Cal 5-100ng	5	✓	100.0	94.5	94.5
p1 Cal 6-250ng	6	✗	250.0	177.4	70.9
p1 Cal 7-500ng	7	✗	500.0	250.8	50.2
p1 Cal 8-1000ng	8	✗	1000.0	339.6	34.0



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte Meprobamate **Internal Standard** Meprobamate-D7

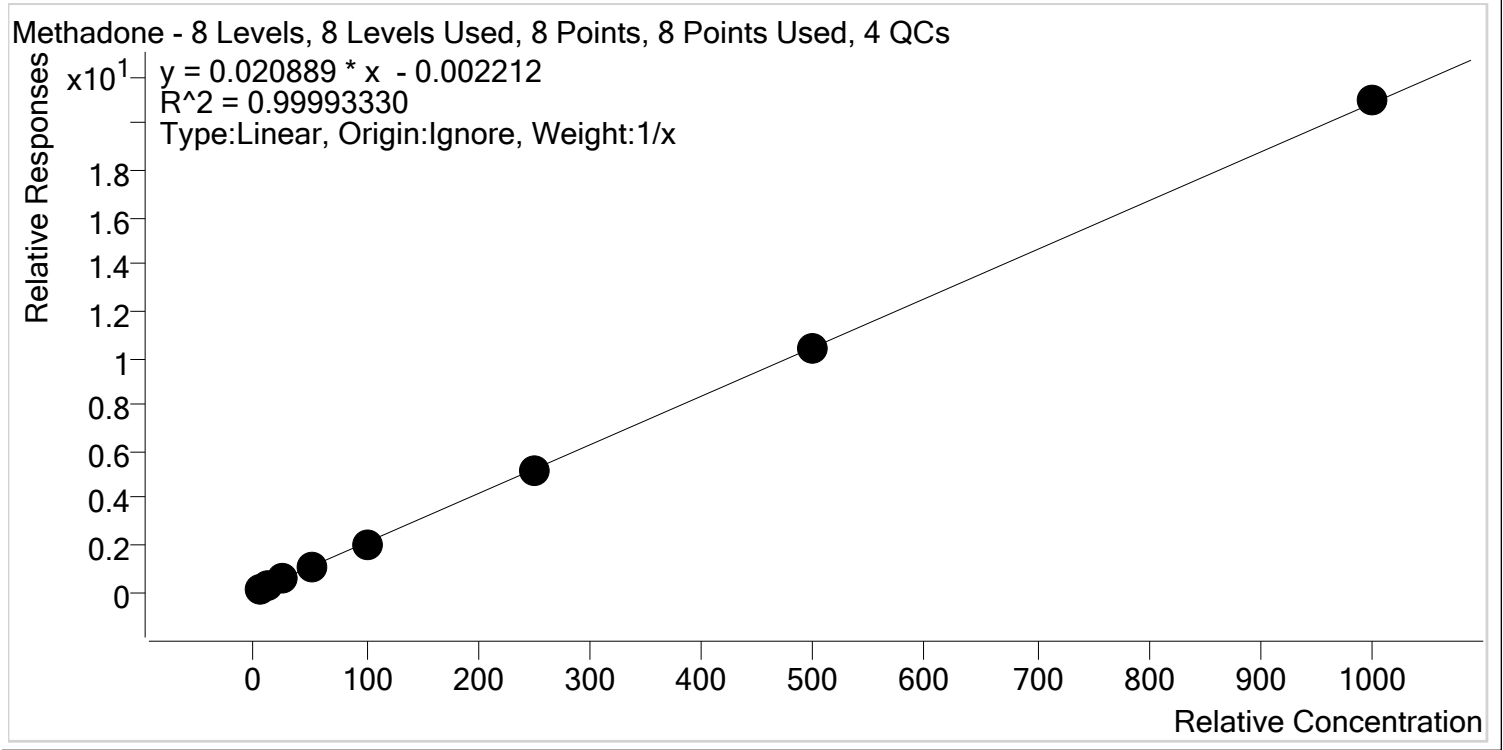


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.9
p1 Cal 2- 10ng	2	✓	10.0	10.4	104.1
p1 Cal 3 -25ng	3	✓	25.0	25.1	100.4
p1 Cal 4-50ng	4	✓	50.0	54.7	109.4
p1 Cal 5-100ng	5	✓	100.0	102.9	102.9
p1 Cal 6-250ng	6	✓	250.0	243.2	97.3
p1 Cal 7-500ng	7	✓	500.0	444.7	88.9
p1 Cal 8-1000ng	8	✗	1000.0	751.4	75.1



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte Methadone **Internal Standard** Methadone-D9

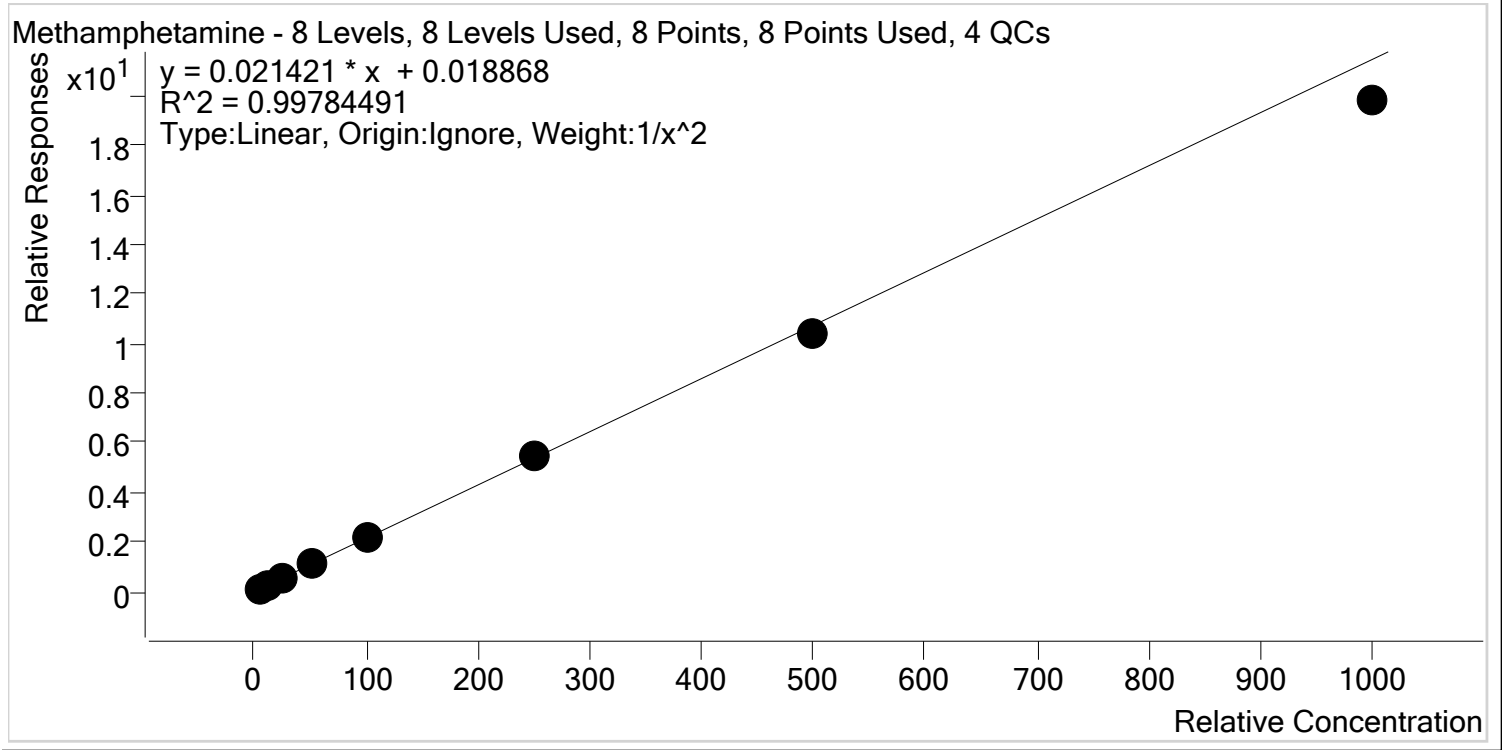


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.3	105.5
p1 Cal 2- 10ng	2	✓	10.0	9.8	98.2
p1 Cal 3 -25ng	3	✓	25.0	24.4	97.6
p1 Cal 4-50ng	4	✓	50.0	50.5	100.9
p1 Cal 5-100ng	5	✓	100.0	98.3	98.3
p1 Cal 6-250ng	6	✓	250.0	248.5	99.4
p1 Cal 7-500ng	7	✓	500.0	497.6	99.5
p1 Cal 8-1000ng	8	✓	1000.0	1005.6	100.6



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte Methamphetamine **Internal Standard** Methamphetamine-D11

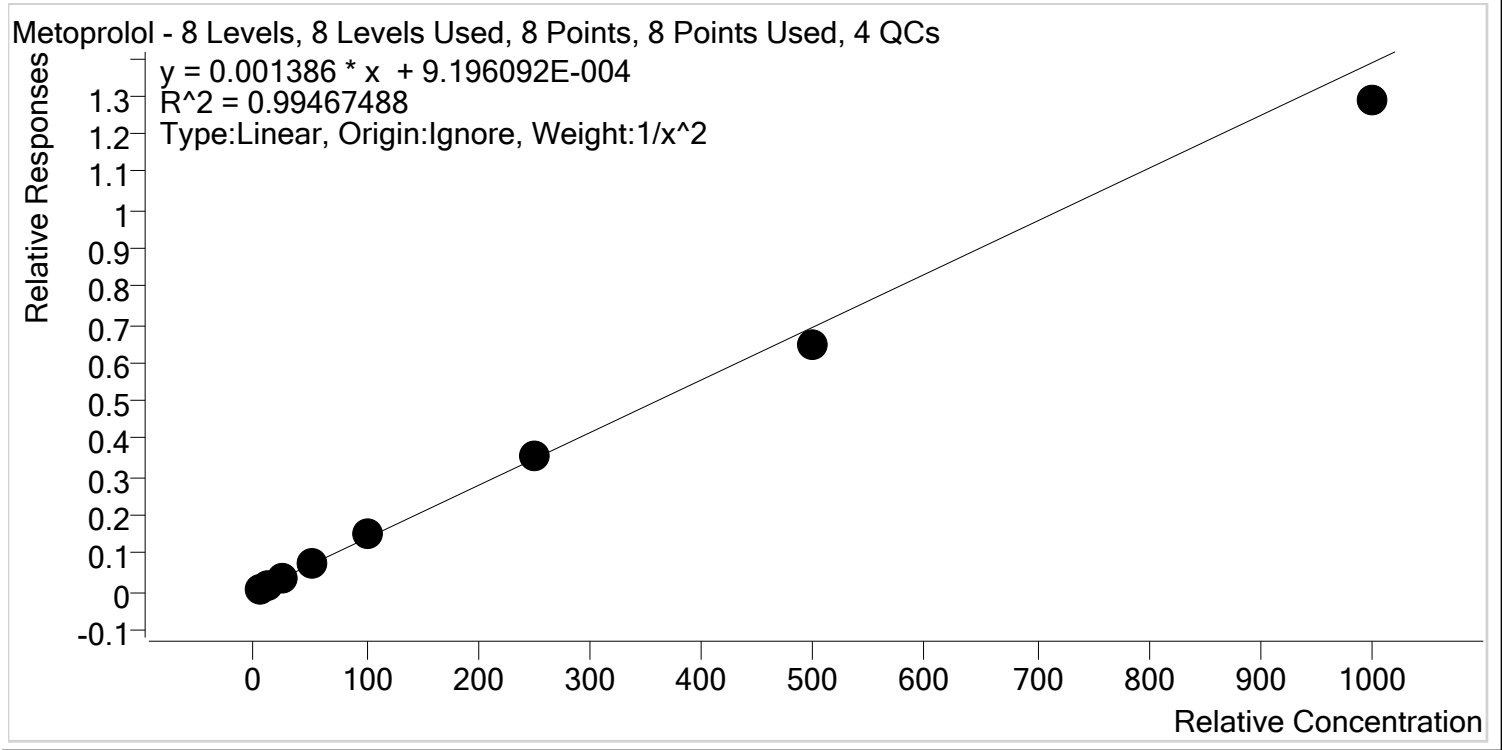


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.4
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.8
p1 Cal 3 -25ng	3	✓	25.0	25.8	103.3
p1 Cal 4-50ng	4	✓	50.0	52.4	104.9
p1 Cal 5-100ng	5	✓	100.0	102.5	102.5
p1 Cal 6-250ng	6	✓	250.0	252.2	100.9
p1 Cal 7-500ng	7	✓	500.0	484.9	97.0
p1 Cal 8-1000ng	8	✓	1000.0	922.7	92.3



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte Metoprolol **Internal Standard** Tramadol-13C-D3

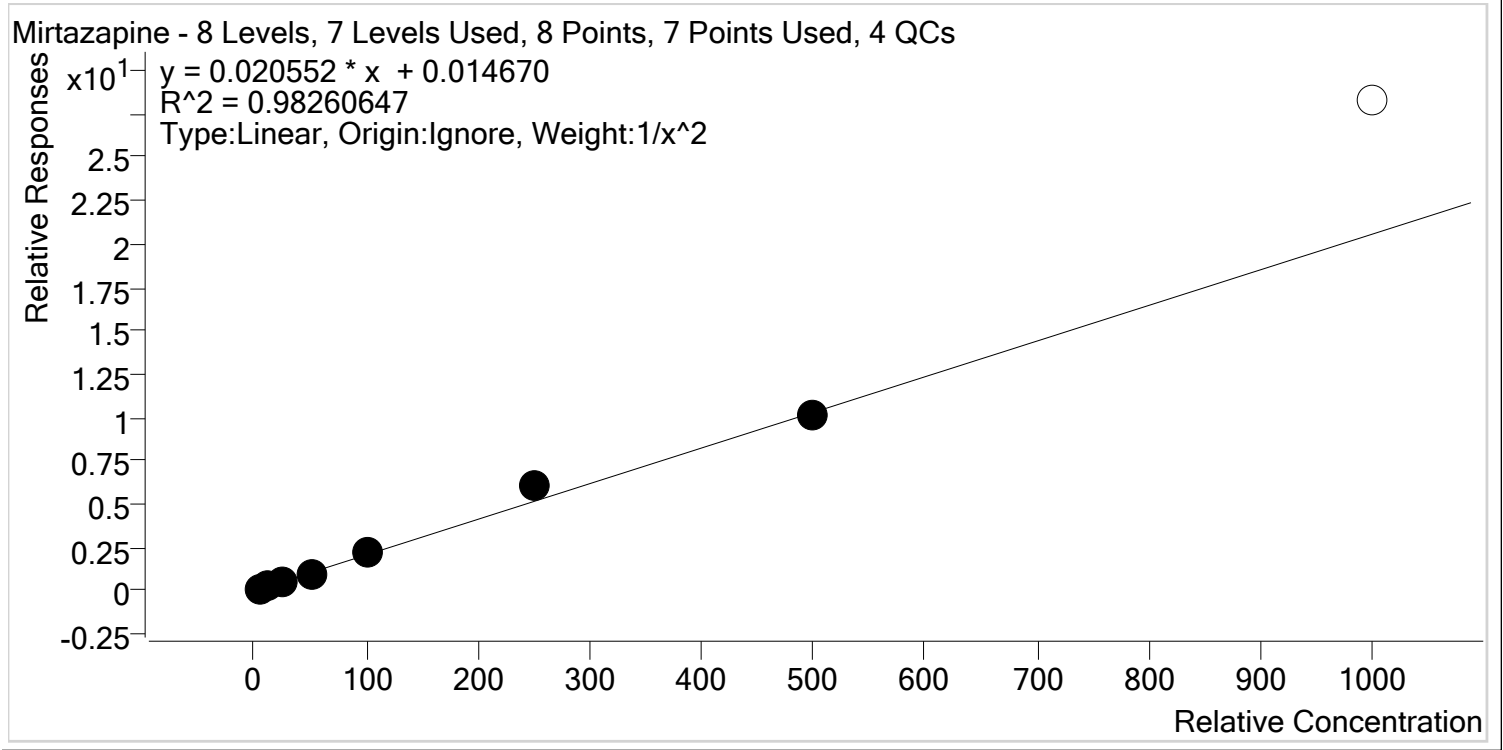


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.9
p1 Cal 2- 10ng	2	✓	10.0	10.3	102.7
p1 Cal 3 -25ng	3	✓	25.0	23.6	94.5
p1 Cal 4-50ng	4	✓	50.0	51.8	103.7
p1 Cal 5-100ng	5	✓	100.0	111.1	111.1
p1 Cal 6-250ng	6	✓	250.0	257.6	103.1
p1 Cal 7-500ng	7	✓	500.0	466.4	93.3
p1 Cal 8-1000ng	8	✓	1000.0	928.3	92.8



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte Mirtazapine **Internal Standard** alpha-PVP-d8

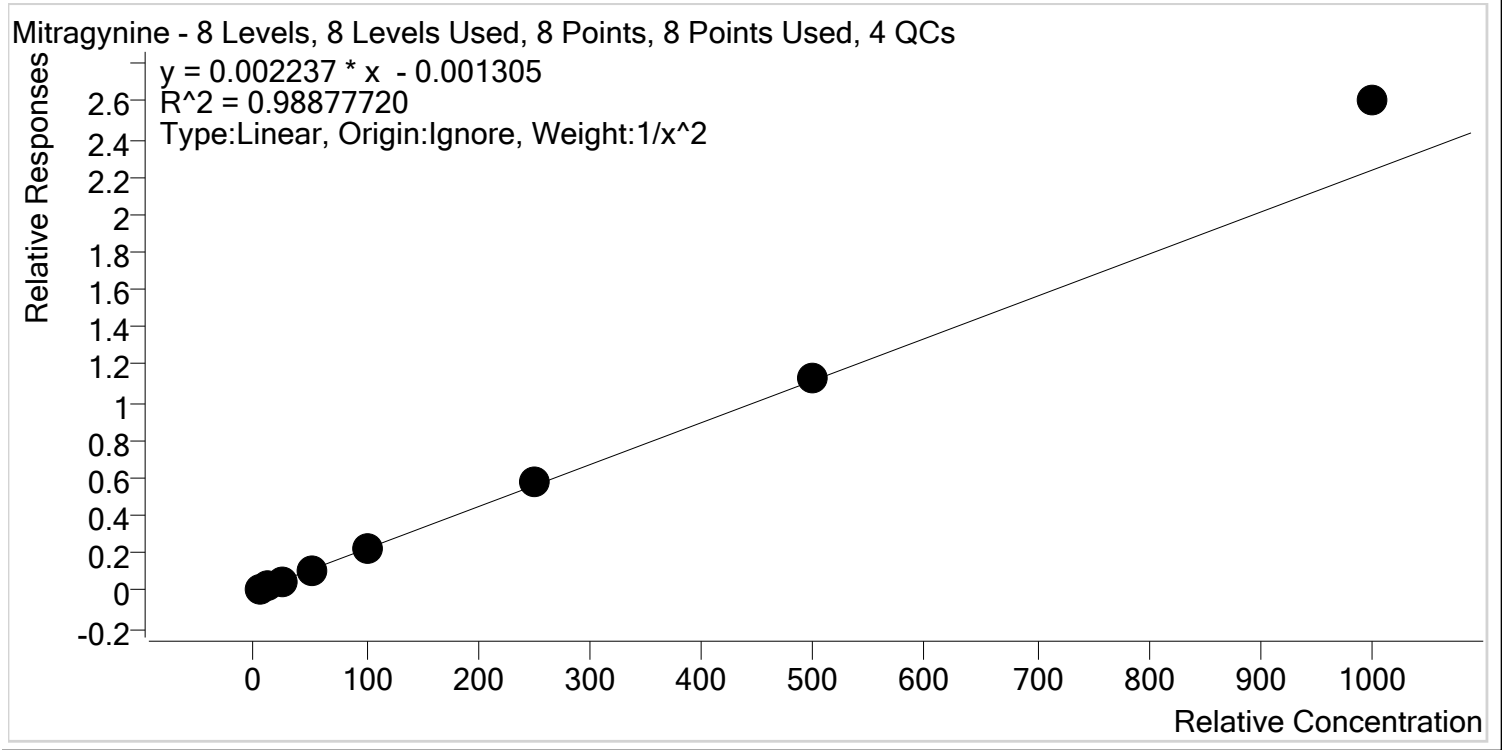


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.3	105.1
p1 Cal 2- 10ng	2	✓	10.0	9.7	97.1
p1 Cal 3 -25ng	3	✓	25.0	20.5	82.1
p1 Cal 4-50ng	4	✓	50.0	45.8	91.6
p1 Cal 5-100ng	5	✓	100.0	108.9	108.9
p1 Cal 6-250ng	6	✓	250.0	289.9	116.0
p1 Cal 7-500ng	7	✓	500.0	496.2	99.2
p1 Cal 8-1000ng	8	✗	1000.0	1374.9	137.5



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte Mitragynine **Internal Standard** Methadone-D9

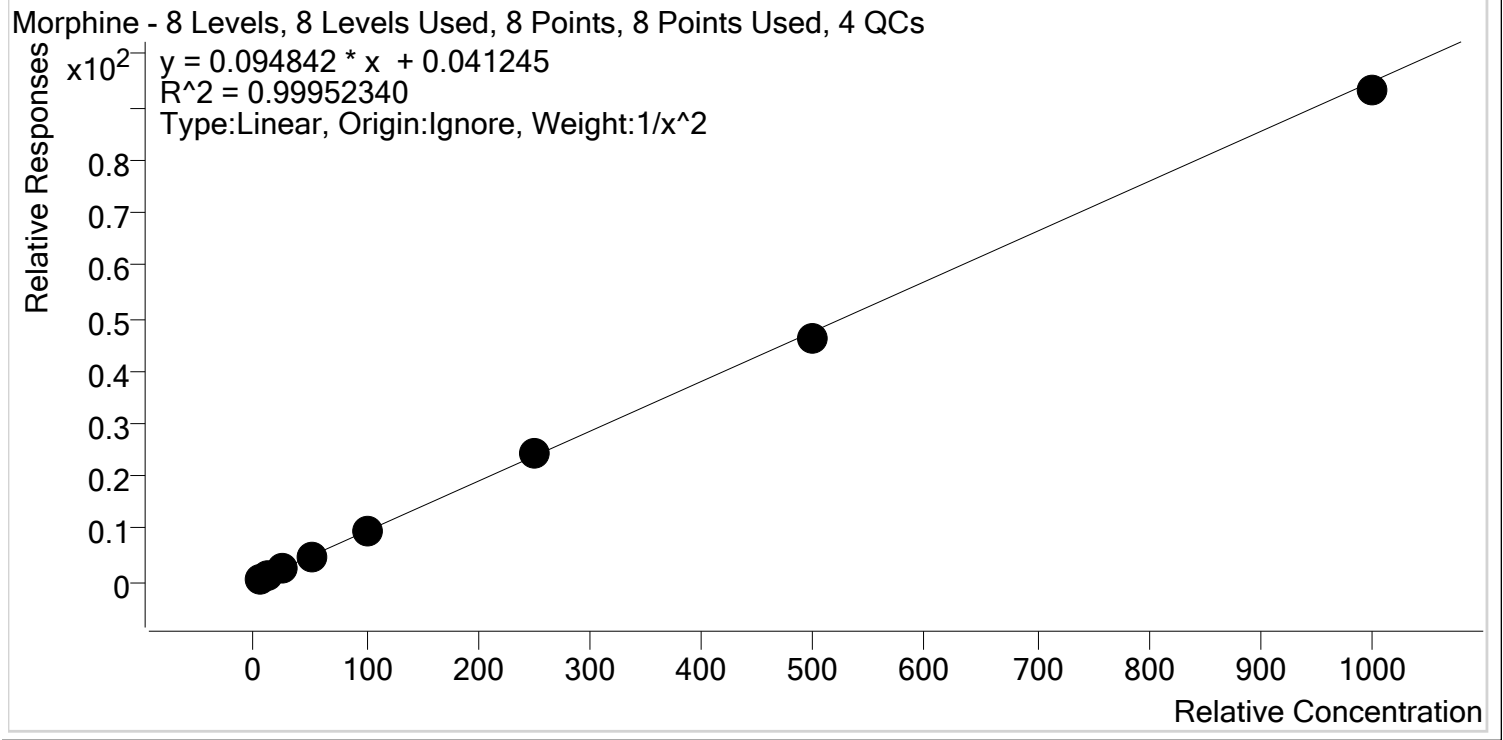


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.4	107.6
p1 Cal 2- 10ng	2	✓	10.0	9.0	90.3
p1 Cal 3 -25ng	3	✓	25.0	22.2	88.7
p1 Cal 4-50ng	4	✓	50.0	47.5	95.1
p1 Cal 5-100ng	5	✓	100.0	97.1	97.1
p1 Cal 6-250ng	6	✓	250.0	258.5	103.4
p1 Cal 7-500ng	7	✓	500.0	506.5	101.3
p1 Cal 8-1000ng	8	✓	1000.0	1165.1	116.5



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte Morphine **Internal Standard** Morphine-D6

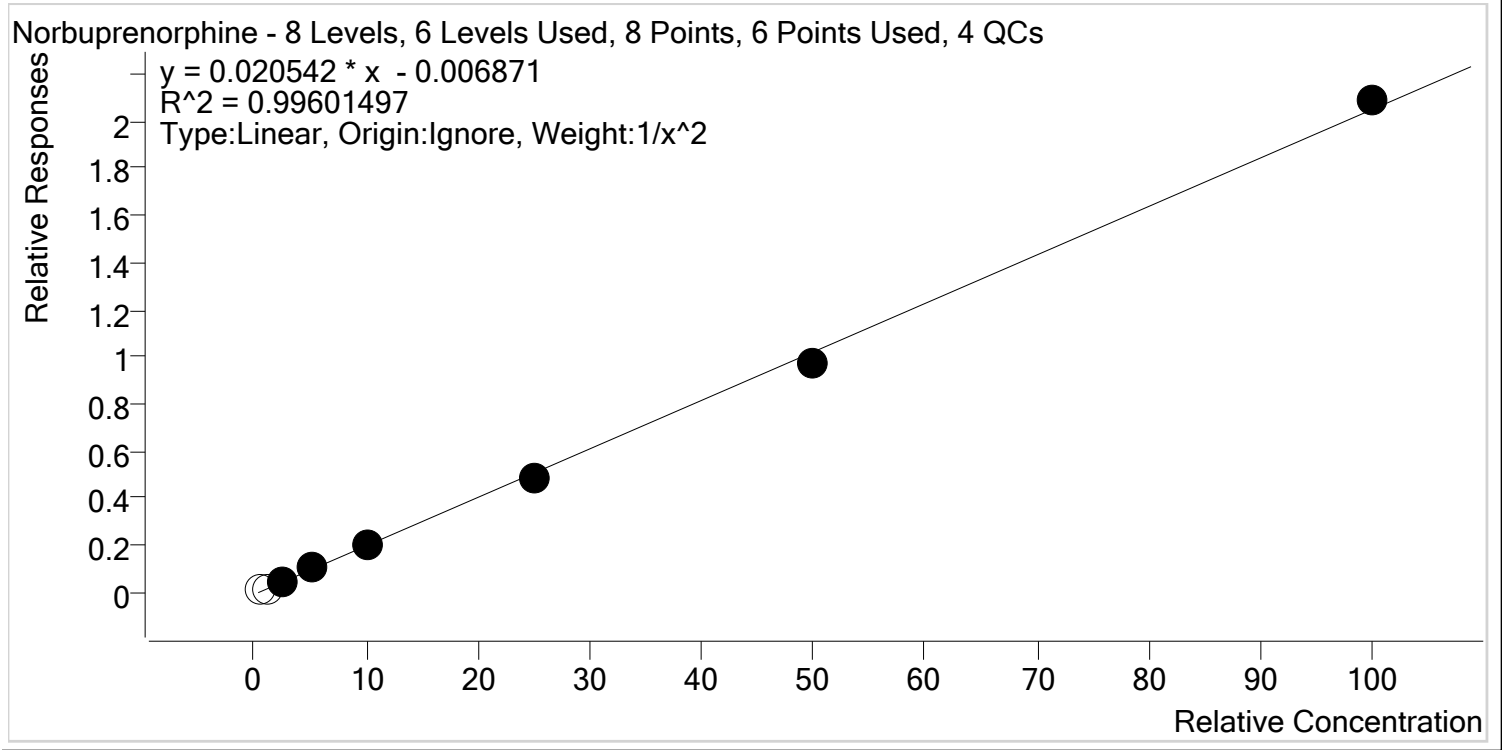


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.9
p1 Cal 2- 10ng	2	✓	10.0	9.8	97.5
p1 Cal 3 -25ng	3	✓	25.0	25.0	100.2
p1 Cal 4-50ng	4	✓	50.0	51.0	102.0
p1 Cal 5-100ng	5	✓	100.0	101.5	101.5
p1 Cal 6-250ng	6	✓	250.0	254.9	101.9
p1 Cal 7-500ng	7	✓	500.0	488.9	97.8
p1 Cal 8-1000ng	8	✓	1000.0	982.0	98.2



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte Norbuprenorphine **Internal Standard** Norbuprenorphine-D3

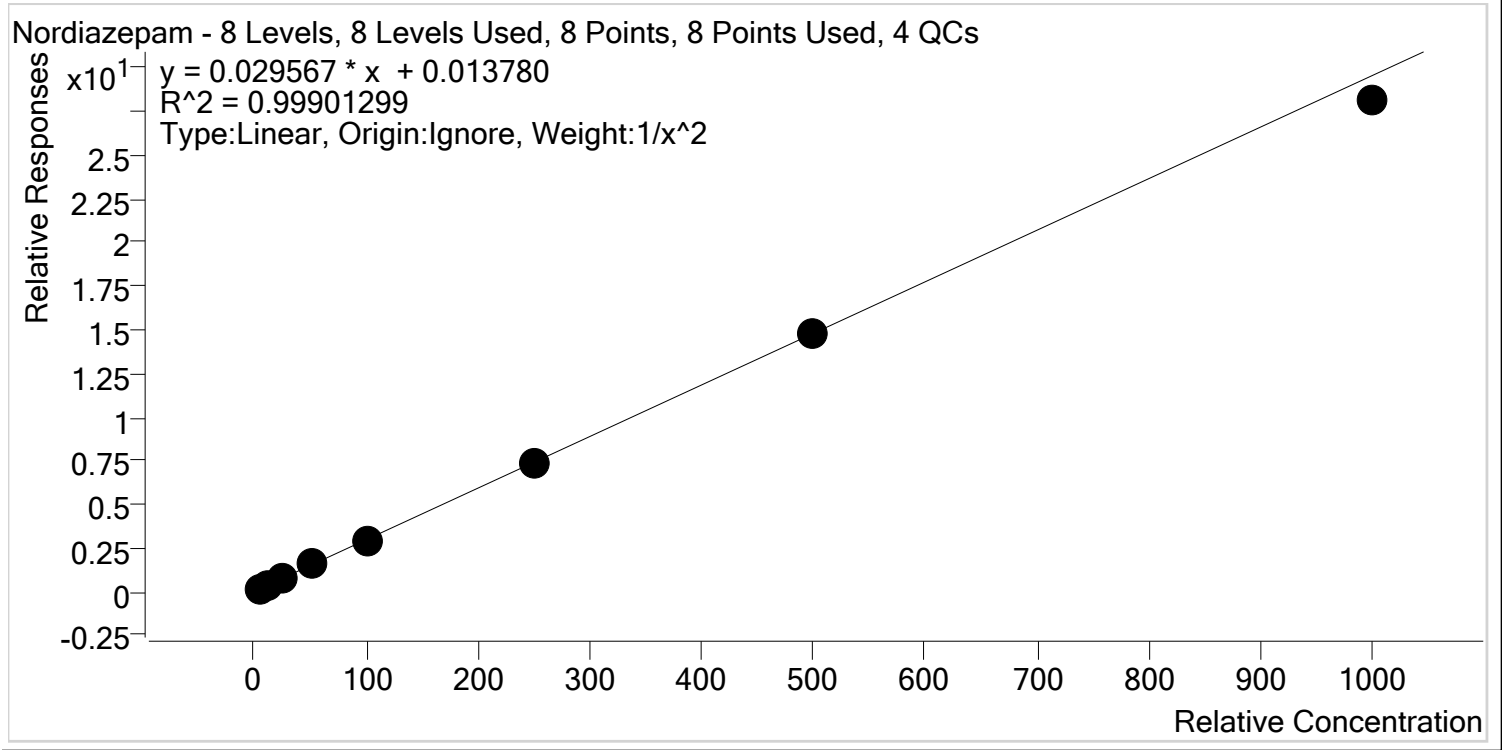


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	x	0.5	1.2	231.8
p1 Cal 2- 10ng	2	x	1.0	1.4	140.1
p1 Cal 3 -25ng	3	✓	2.5	2.4	95.9
p1 Cal 4-50ng	4	✓	5.0	5.5	109.1
p1 Cal 5-100ng	5	✓	10.0	10.0	100.0
p1 Cal 6-250ng	6	✓	25.0	24.3	97.1
p1 Cal 7-500ng	7	✓	50.0	48.0	96.0
p1 Cal 8-1000ng	8	✓	100.0	101.8	101.8



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte Nordiazepam **Internal Standard** Nordiazepam-D5

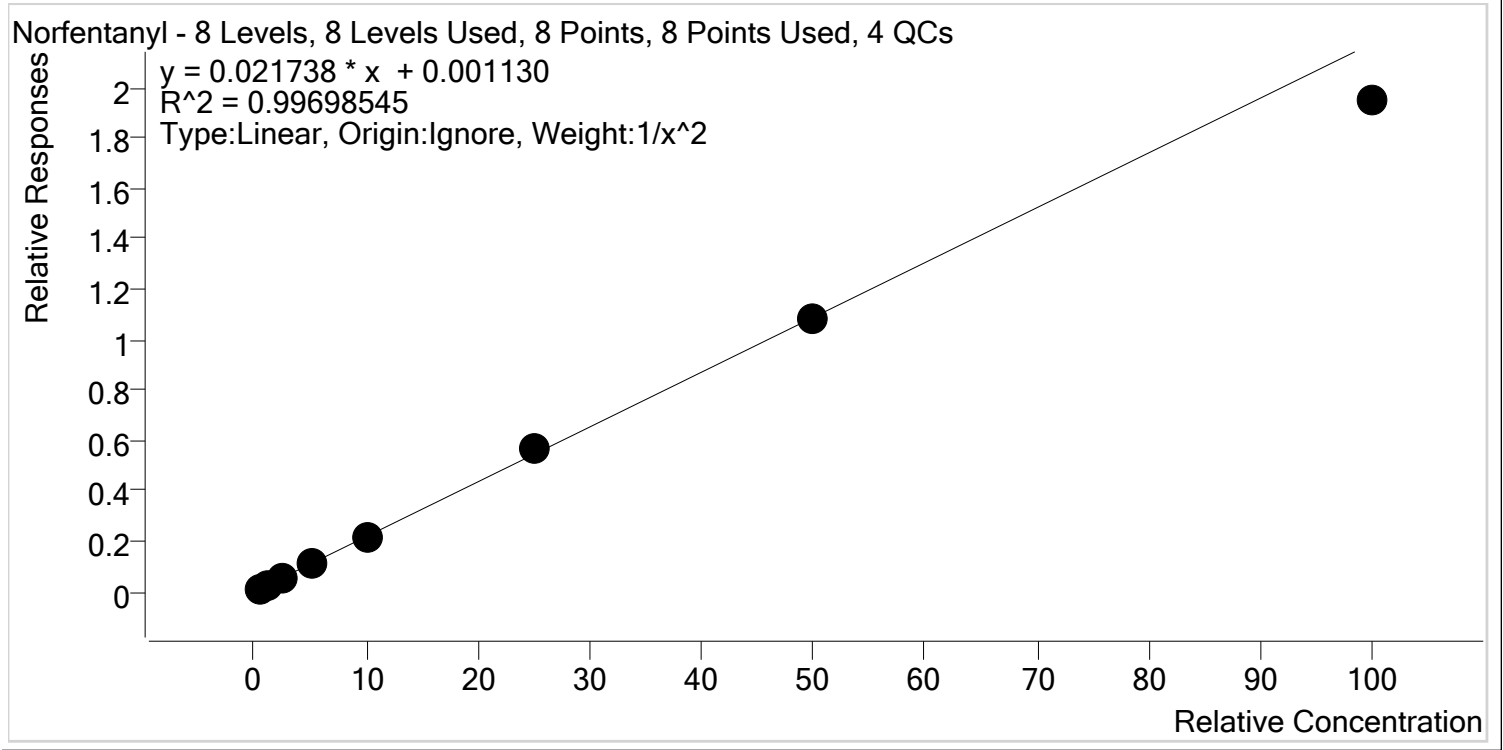


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.6
p1 Cal 2- 10ng	2	✓	10.0	10.4	103.6
p1 Cal 3 -25ng	3	✓	25.0	25.4	101.7
p1 Cal 4-50ng	4	✓	50.0	51.2	102.4
p1 Cal 5-100ng	5	✓	100.0	99.6	99.6
p1 Cal 6-250ng	6	✓	250.0	251.3	100.5
p1 Cal 7-500ng	7	✓	500.0	496.5	99.3
p1 Cal 8-1000ng	8	✓	1000.0	951.5	95.1



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte Norfentanyl **Internal Standard** Norfentanyl-D5



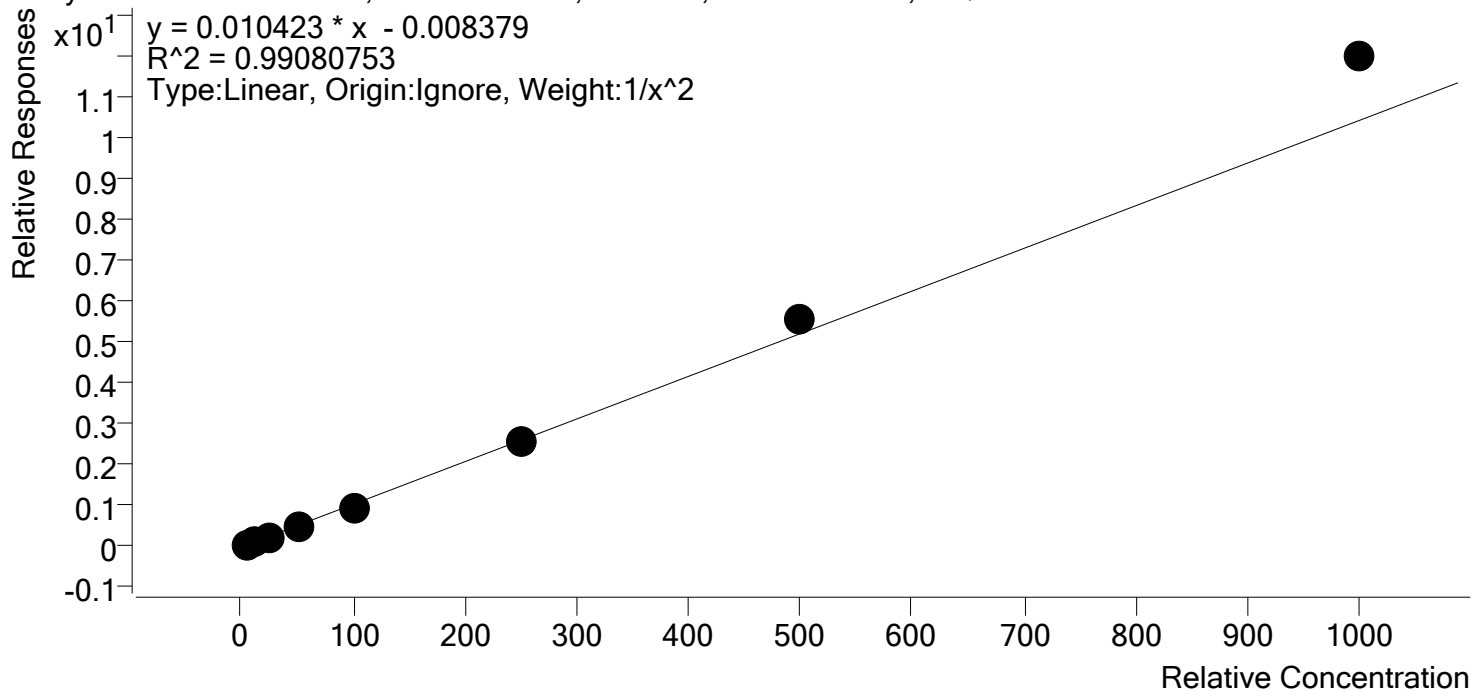
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	98.8
p1 Cal 2- 10ng	2	✓	1.0	1.0	100.0
p1 Cal 3 -25ng	3	✓	2.5	2.6	102.7
p1 Cal 4-50ng	4	✓	5.0	5.3	105.3
p1 Cal 5-100ng	5	✓	10.0	10.2	101.7
p1 Cal 6-250ng	6	✓	25.0	25.8	103.1
p1 Cal 7-500ng	7	✓	50.0	49.4	98.9
p1 Cal 8-1000ng	8	✓	100.0	89.6	89.6



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte Norhydrocodone **Internal Standard** Norhydrocodone-D3

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

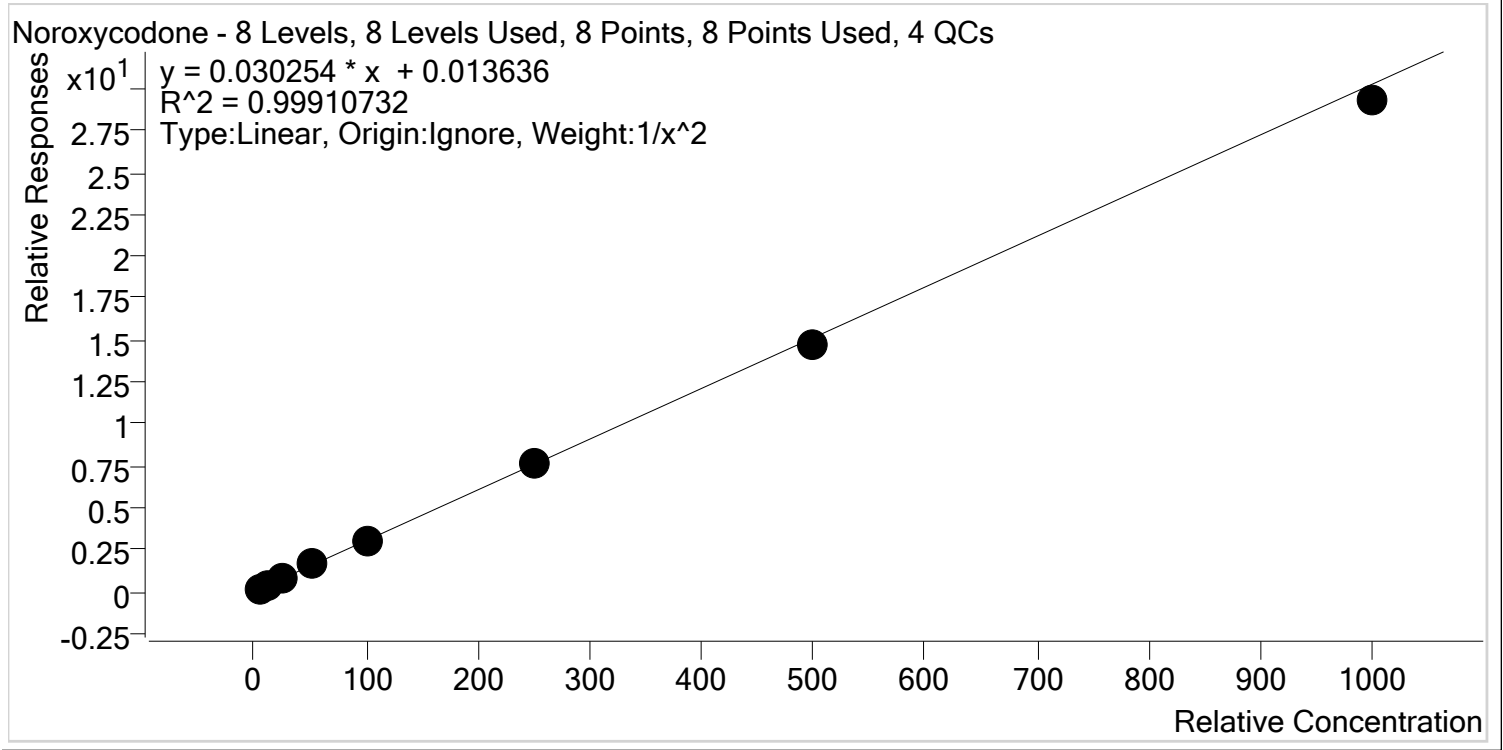


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.2	103.5
p1 Cal 2- 10ng	2	✓	10.0	9.8	98.4
p1 Cal 3 -25ng	3	✓	25.0	22.9	91.7
p1 Cal 4-50ng	4	✓	50.0	46.0	92.0
p1 Cal 5-100ng	5	✓	100.0	91.9	91.9
p1 Cal 6-250ng	6	✓	250.0	250.8	100.3
p1 Cal 7-500ng	7	✓	500.0	535.8	107.2
p1 Cal 8-1000ng	8	✓	1000.0	1149.8	115.0



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte Noroxycodone **Internal Standard** Noroxycodone-D3

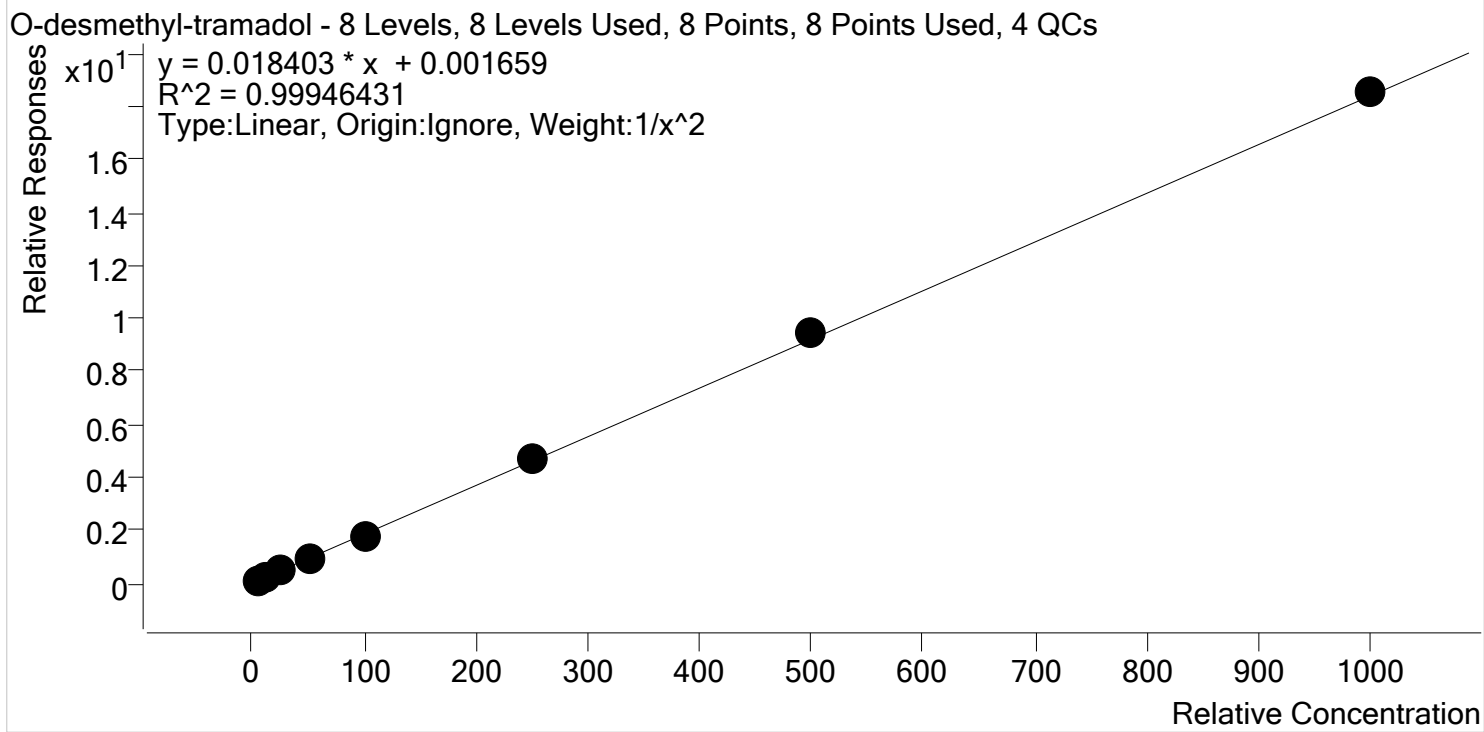


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.3
p1 Cal 2- 10ng	2	✓	10.0	9.8	97.9
p1 Cal 3 -25ng	3	✓	25.0	25.3	101.4
p1 Cal 4-50ng	4	✓	50.0	52.3	104.7
p1 Cal 5-100ng	5	✓	100.0	101.6	101.6
p1 Cal 6-250ng	6	✓	250.0	249.4	99.8
p1 Cal 7-500ng	7	✓	500.0	488.2	97.6
p1 Cal 8-1000ng	8	✓	1000.0	967.7	96.8



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte O-desmethyl-tramadol **Internal Standard** O-desmethyl-tramadol-D6

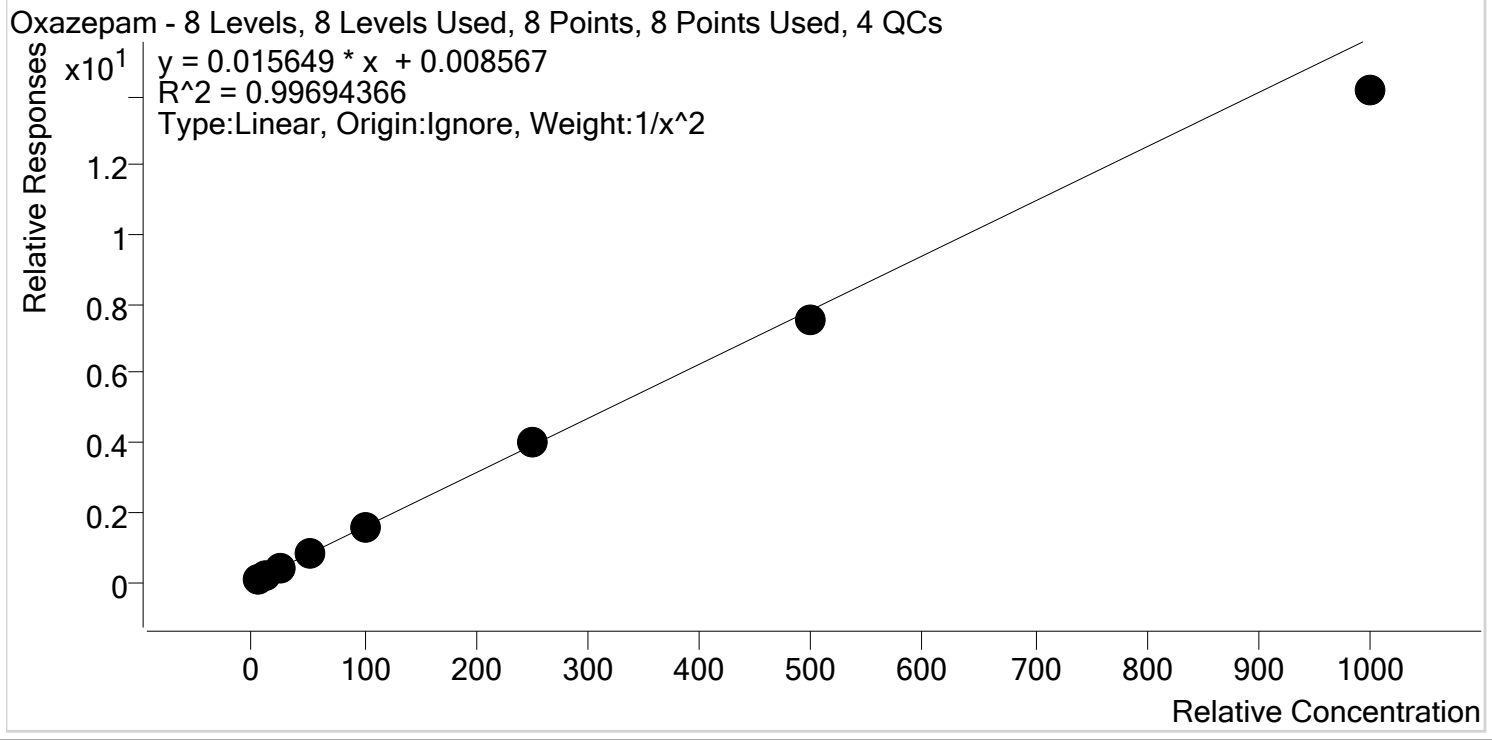


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.3
p1 Cal 2- 10ng	2	✓	10.0	9.8	98.3
p1 Cal 3 -25ng	3	✓	25.0	24.6	98.4
p1 Cal 4-50ng	4	✓	50.0	50.1	100.2
p1 Cal 5-100ng	5	✓	100.0	96.8	96.8
p1 Cal 6-250ng	6	✓	250.0	253.4	101.4
p1 Cal 7-500ng	7	✓	500.0	514.6	102.9
p1 Cal 8-1000ng	8	✓	1000.0	1007.7	100.8



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte Oxazepam **Internal Standard** Oxazepam-D5

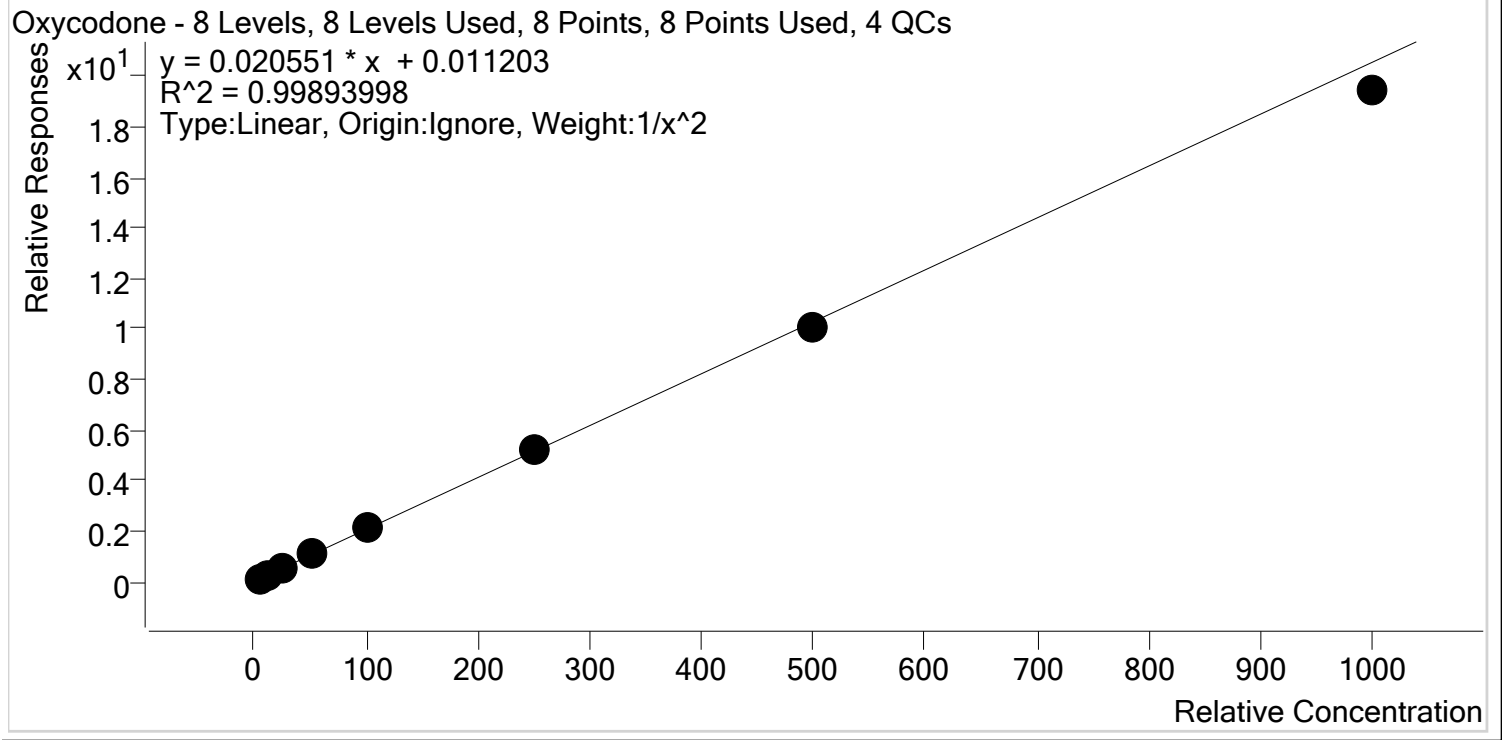


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.4
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.3
p1 Cal 3 -25ng	3	✓	25.0	26.2	104.8
p1 Cal 4-50ng	4	✓	50.0	51.8	103.7
p1 Cal 5-100ng	5	✓	100.0	102.7	102.7
p1 Cal 6-250ng	6	✓	250.0	258.1	103.2
p1 Cal 7-500ng	7	✓	500.0	482.6	96.5
p1 Cal 8-1000ng	8	✓	1000.0	903.7	90.4



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte Oxycodone **Internal Standard** Oxycodone-D6

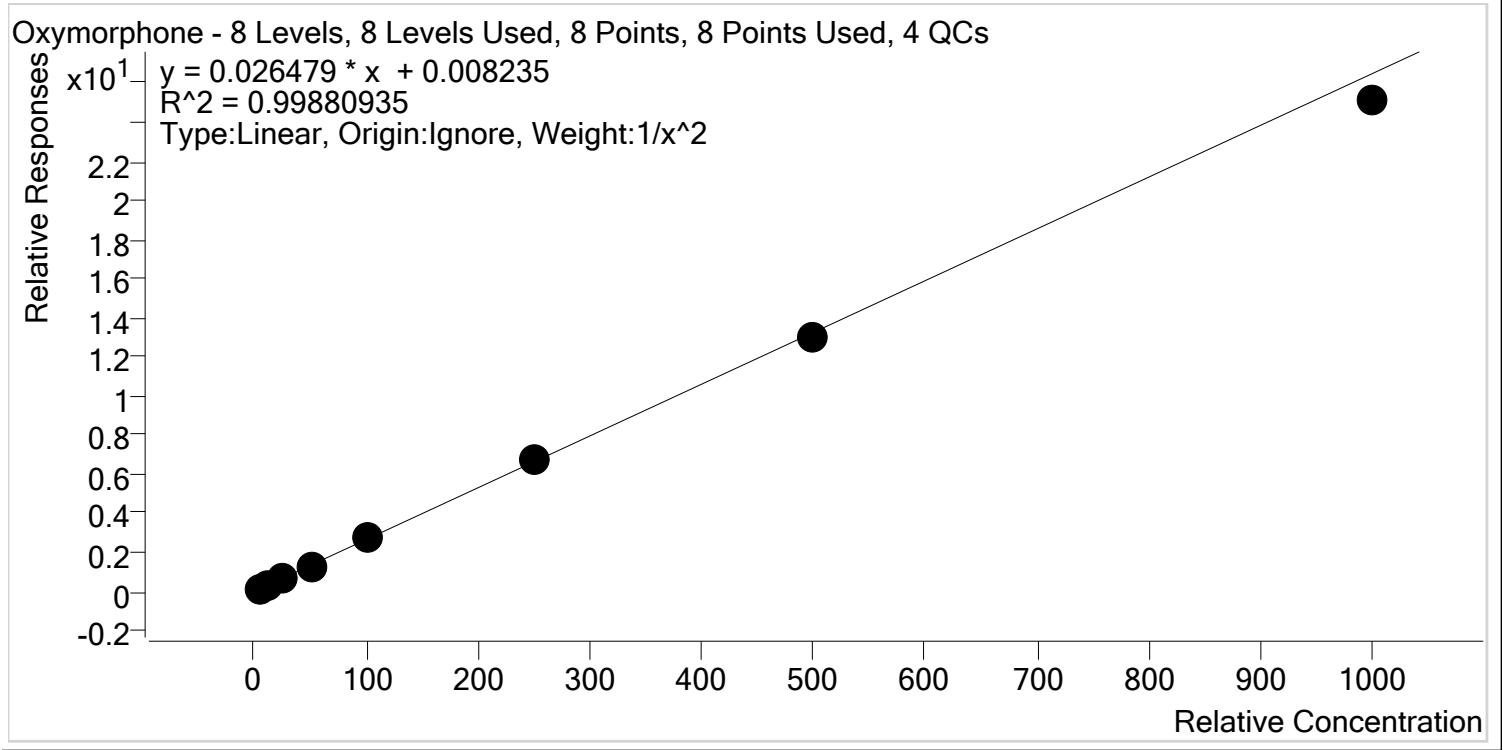


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.9
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.7
p1 Cal 3 -25ng	3	✓	25.0	25.4	101.5
p1 Cal 4-50ng	4	✓	50.0	52.1	104.2
p1 Cal 5-100ng	5	✓	100.0	101.2	101.2
p1 Cal 6-250ng	6	✓	250.0	252.0	100.8
p1 Cal 7-500ng	7	✓	500.0	491.1	98.2
p1 Cal 8-1000ng	8	✓	1000.0	945.5	94.6



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte Oxymorphone **Internal Standard** Oxymorphone-D3

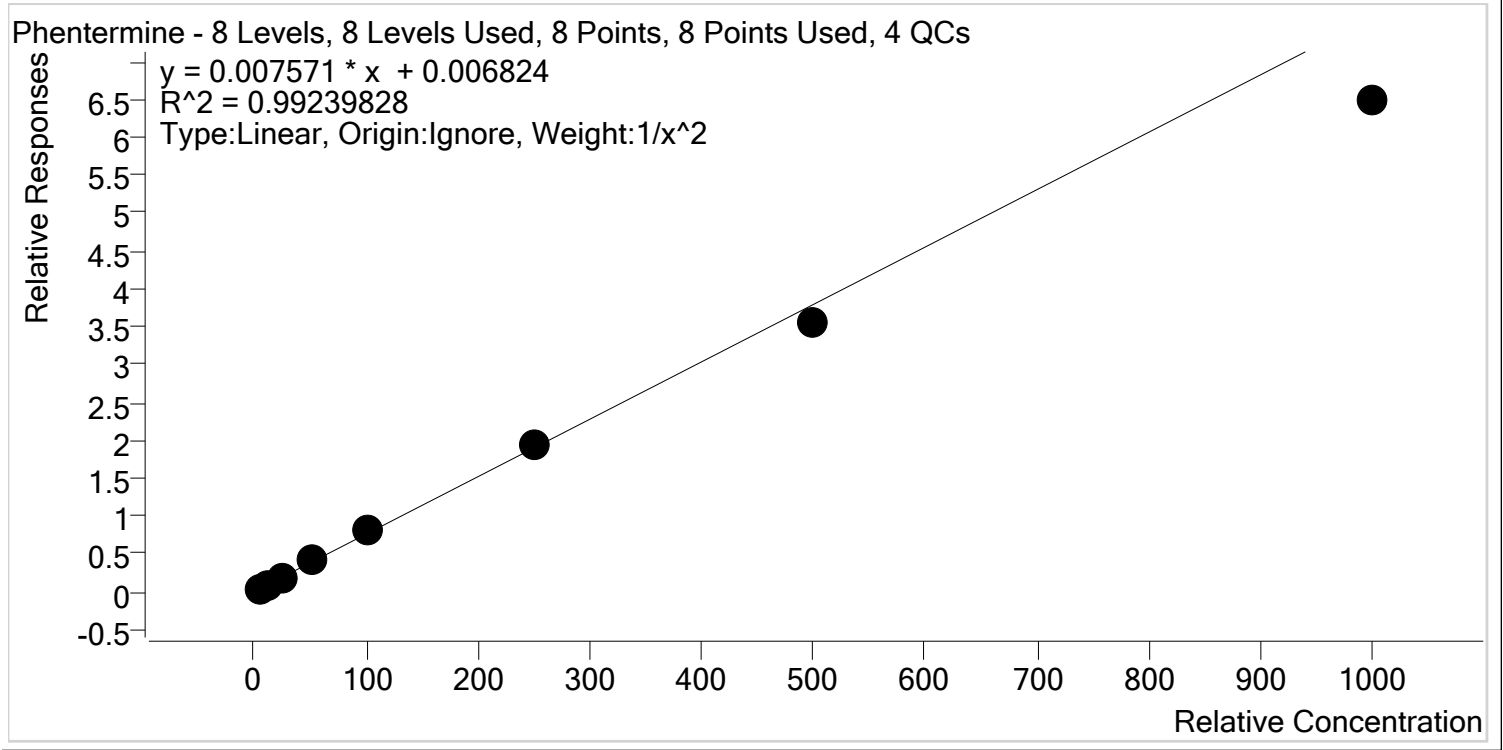


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.7
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.7
p1 Cal 3 -25ng	3	✓	25.0	24.6	98.3
p1 Cal 4-50ng	4	✓	50.0	50.2	100.4
p1 Cal 5-100ng	5	✓	100.0	105.1	105.1
p1 Cal 6-250ng	6	✓	250.0	255.5	102.2
p1 Cal 7-500ng	7	✓	500.0	494.2	98.8
p1 Cal 8-1000ng	8	✓	1000.0	948.0	94.8



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte Phentermine **Internal Standard** Phentermine-D5

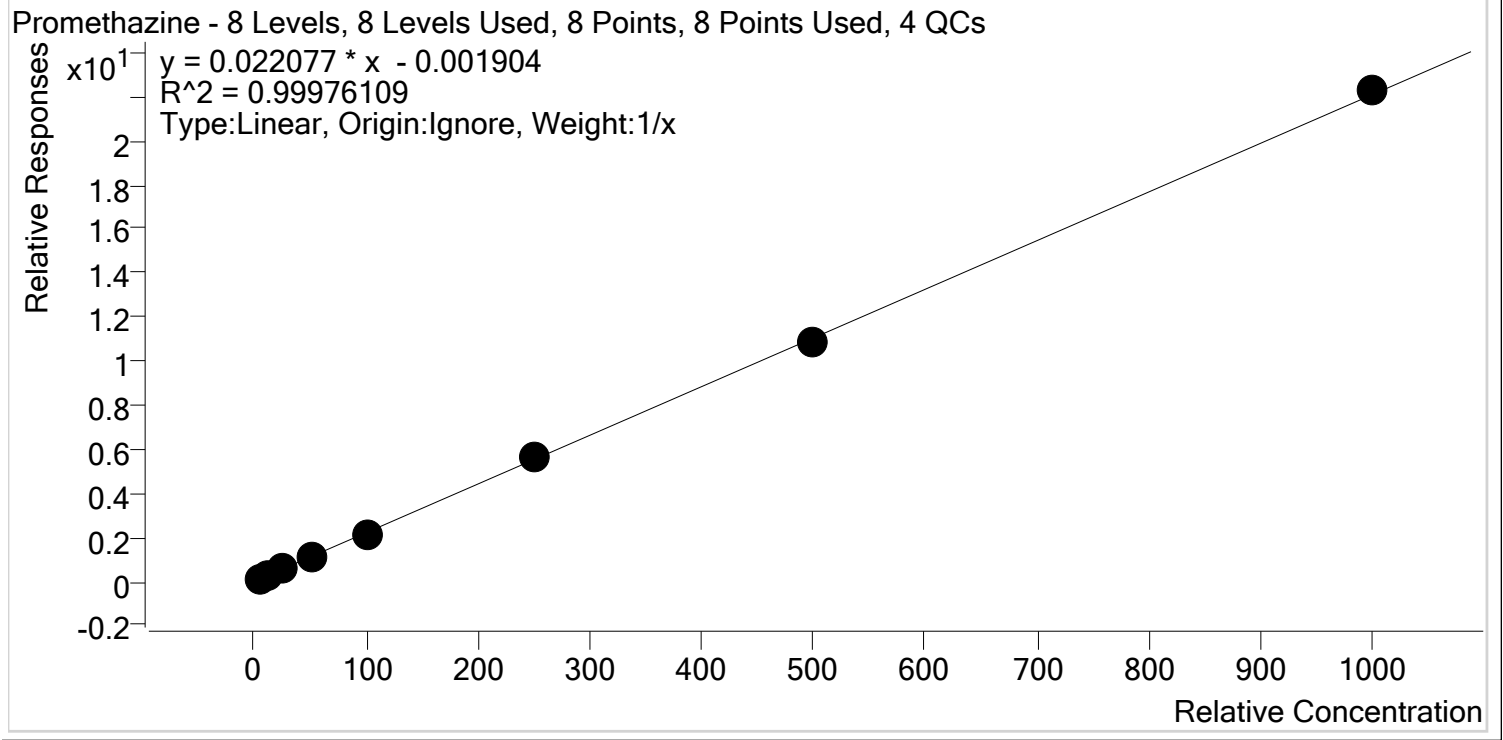


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.0
p1 Cal 2- 10ng	2	✓	10.0	10.4	104.1
p1 Cal 3 -25ng	3	✓	25.0	26.2	104.8
p1 Cal 4-50ng	4	✓	50.0	53.9	107.8
p1 Cal 5-100ng	5	✓	100.0	105.3	105.3
p1 Cal 6-250ng	6	✓	250.0	257.0	102.8
p1 Cal 7-500ng	7	✓	500.0	468.0	93.6
p1 Cal 8-1000ng	8	✓	1000.0	855.2	85.5



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte Promethazine **Internal Standard** Promethazine-D3

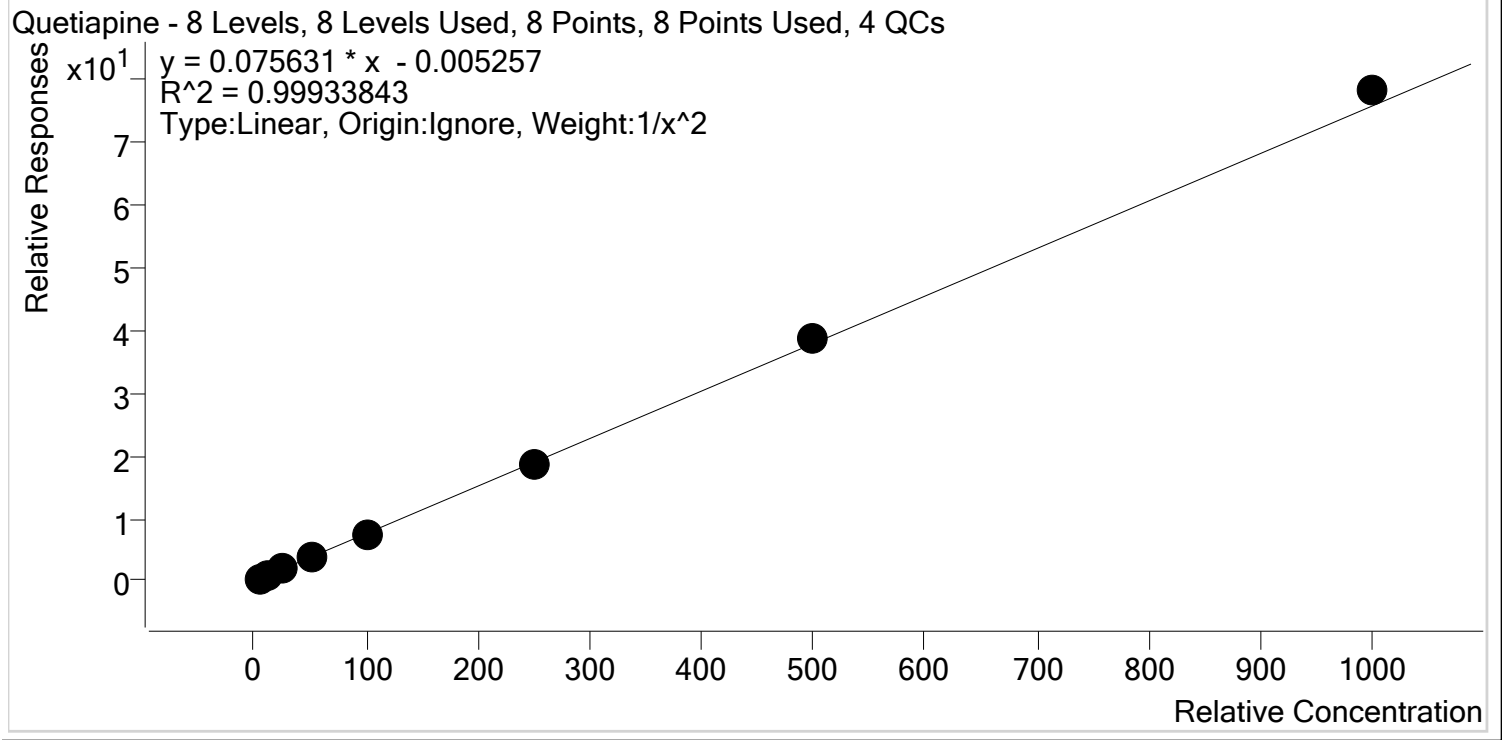


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.3	106.4
p1 Cal 2- 10ng	2	✓	10.0	9.7	96.9
p1 Cal 3 -25ng	3	✓	25.0	24.4	97.5
p1 Cal 4-50ng	4	✓	50.0	49.9	99.8
p1 Cal 5-100ng	5	✓	100.0	99.3	99.3
p1 Cal 6-250ng	6	✓	250.0	253.9	101.6
p1 Cal 7-500ng	7	✓	500.0	489.1	97.8
p1 Cal 8-1000ng	8	✓	1000.0	1008.5	100.8



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
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	5.0	100.3
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.6
p1 Cal 3 -25ng	3	✓	25.0	25.1	100.5
p1 Cal 4-50ng	4	✓	50.0	50.3	100.5
p1 Cal 5-100ng	5	✓	100.0	96.1	96.1
p1 Cal 6-250ng	6	✓	250.0	244.7	97.9
p1 Cal 7-500ng	7	✓	500.0	509.8	102.0
p1 Cal 8-1000ng	8	✓	1000.0	1032.5	103.3

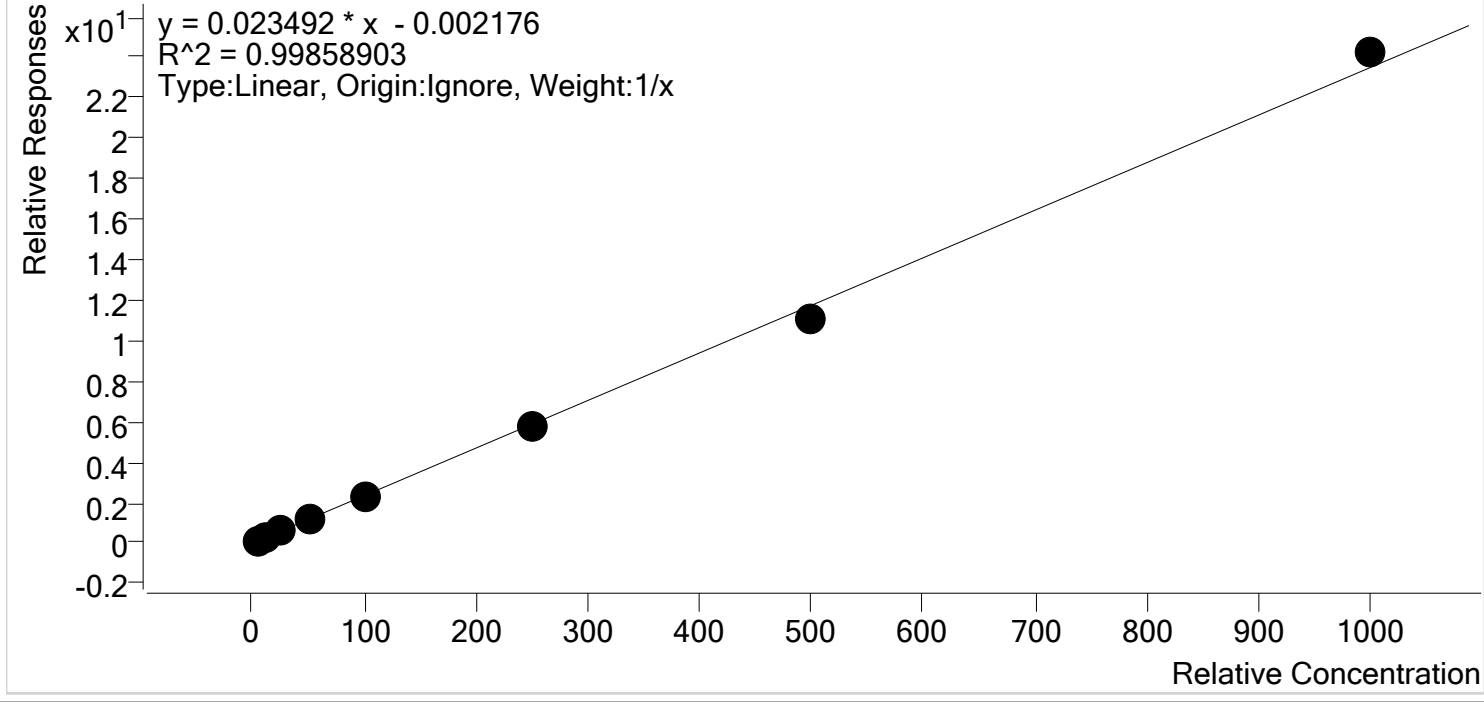
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte Sertraline **Internal Standard** Sertraline-D3

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

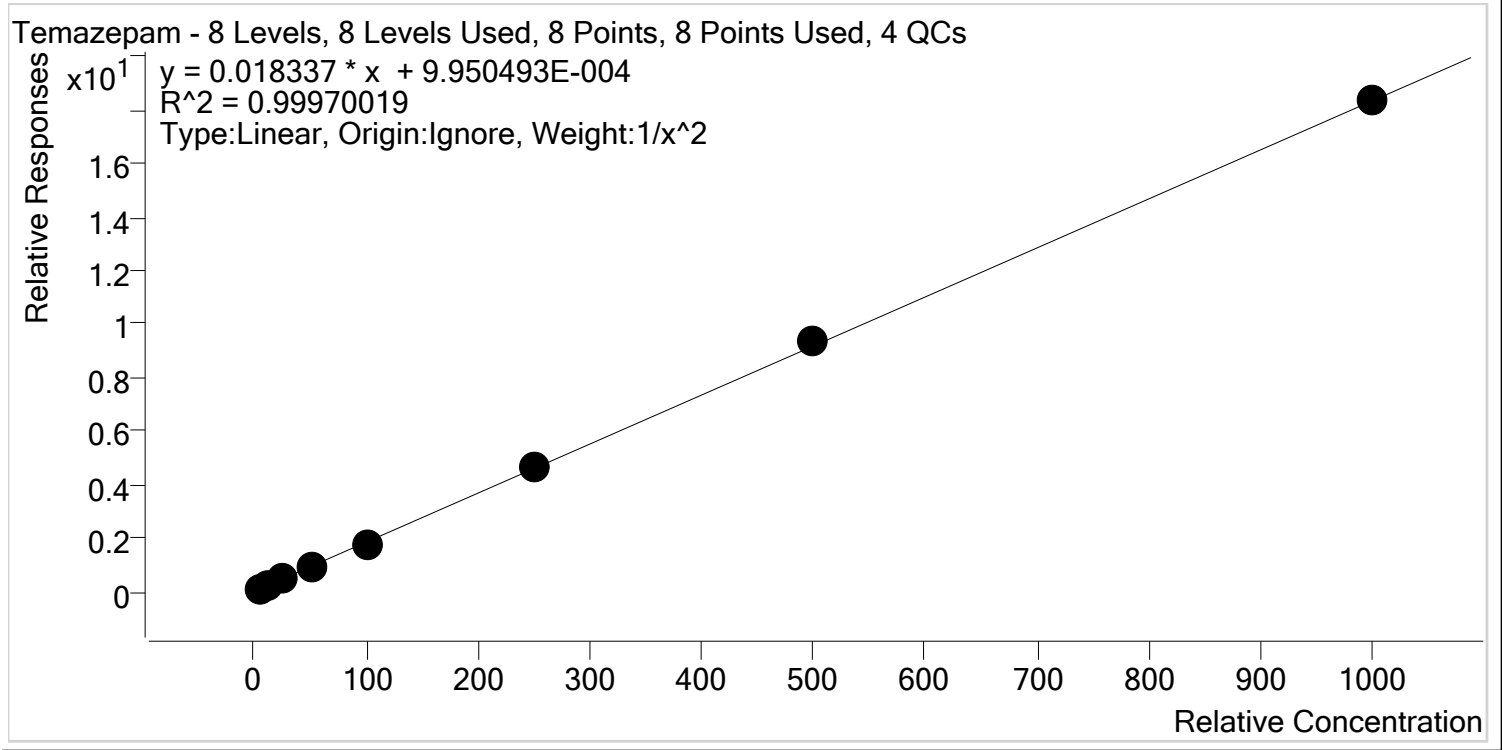


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.2	104.3
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.5
p1 Cal 3 -25ng	3	✓	25.0	25.2	100.8
p1 Cal 4-50ng	4	✓	50.0	51.0	102.0
p1 Cal 5-100ng	5	✓	100.0	97.1	97.1
p1 Cal 6-250ng	6	✓	250.0	245.7	98.3
p1 Cal 7-500ng	7	✓	500.0	474.4	94.9
p1 Cal 8-1000ng	8	✓	1000.0	1031.5	103.2



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte Temazepam **Internal Standard** Temazepam-D5

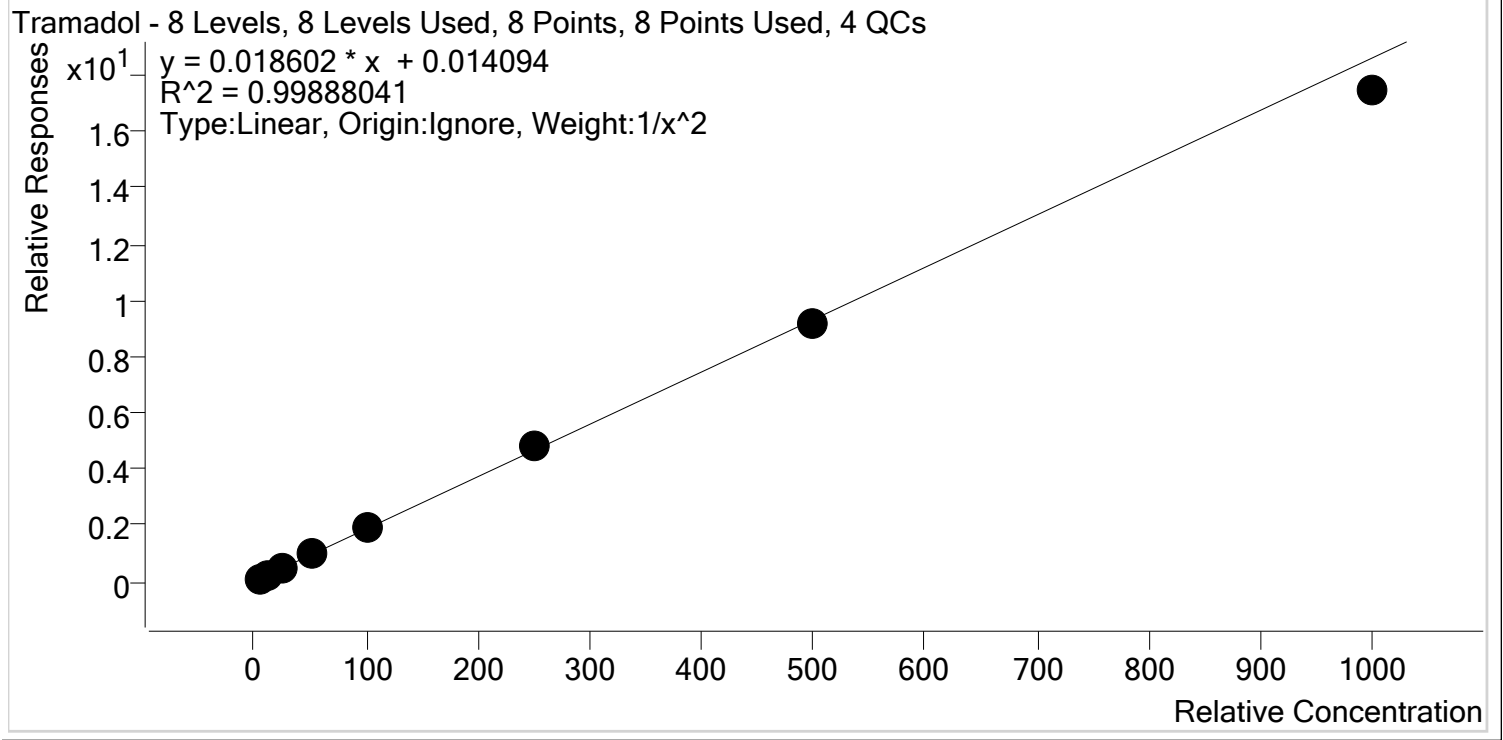


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.6
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.4
p1 Cal 3 -25ng	3	✓	25.0	24.7	98.9
p1 Cal 4-50ng	4	✓	50.0	49.7	99.4
p1 Cal 5-100ng	5	✓	100.0	97.8	97.8
p1 Cal 6-250ng	6	✓	250.0	256.3	102.5
p1 Cal 7-500ng	7	✓	500.0	506.9	101.4
p1 Cal 8-1000ng	8	✓	1000.0	1000.7	100.1



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte Tramadol **Internal Standard** Tramadol-13C-D3

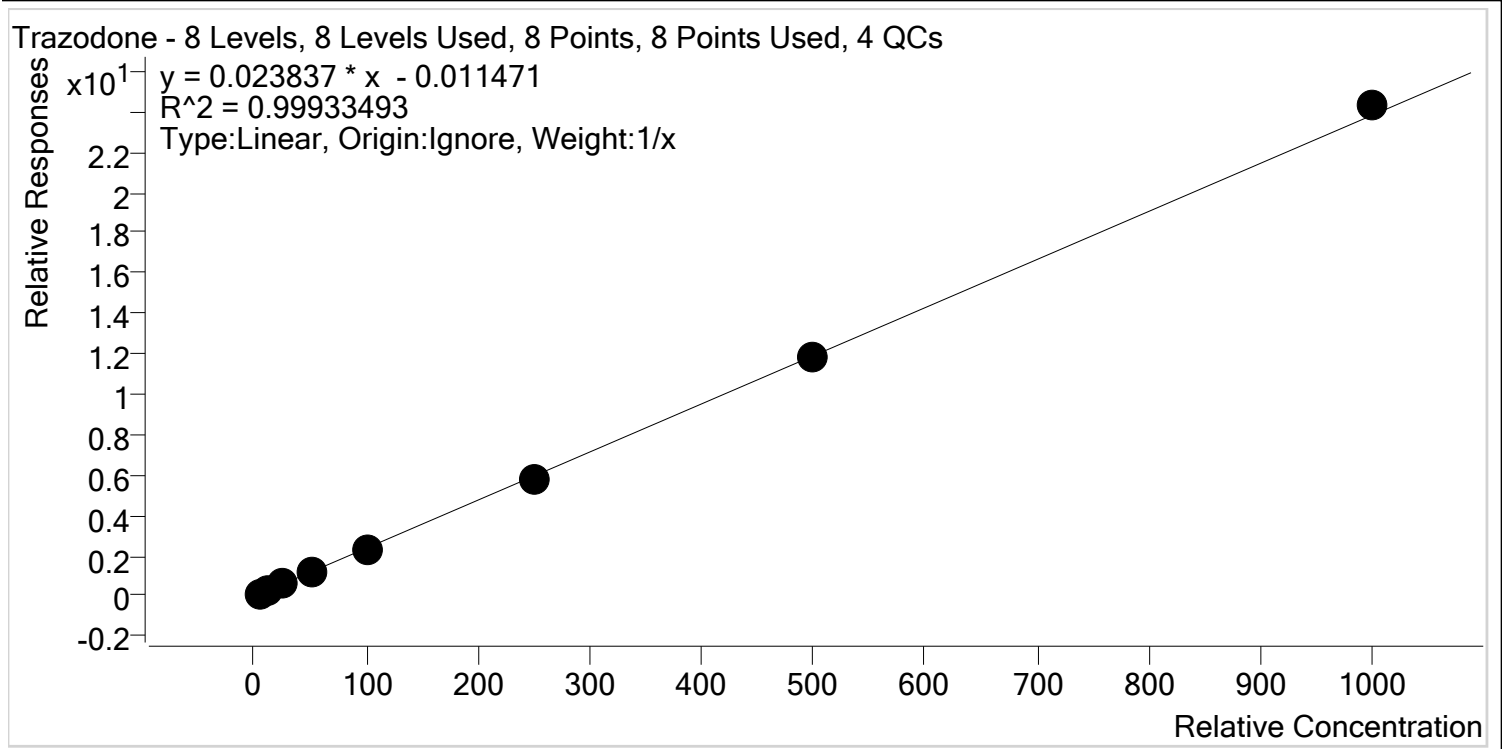


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.3
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.8
p1 Cal 3 -25ng	3	✓	25.0	25.0	99.9
p1 Cal 4-50ng	4	✓	50.0	51.3	102.6
p1 Cal 5-100ng	5	✓	100.0	102.1	102.1
p1 Cal 6-250ng	6	✓	250.0	256.5	102.6
p1 Cal 7-500ng	7	✓	500.0	494.9	99.0
p1 Cal 8-1000ng	8	✓	1000.0	937.7	93.8



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte Trazodone **Internal Standard** Trazodone-D6

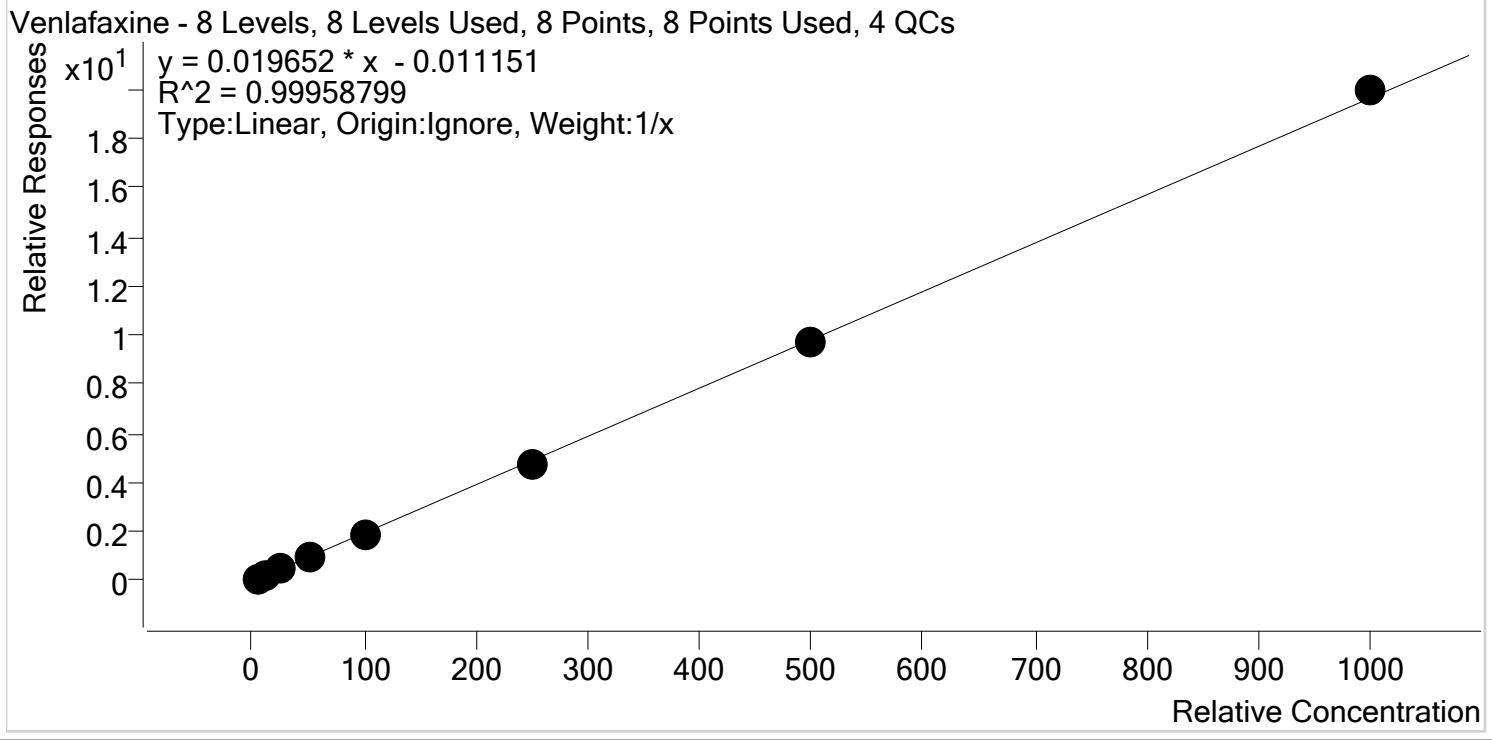


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.5	109.6
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.7
p1 Cal 3 -25ng	3	✓	25.0	24.7	98.8
p1 Cal 4-50ng	4	✓	50.0	49.3	98.6
p1 Cal 5-100ng	5	✓	100.0	93.6	93.6
p1 Cal 6-250ng	6	✓	250.0	242.2	96.9
p1 Cal 7-500ng	7	✓	500.0	494.5	98.9
p1 Cal 8-1000ng	8	✓	1000.0	1020.1	102.0



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte Venlafaxine **Internal Standard** Venlafaxine-D6



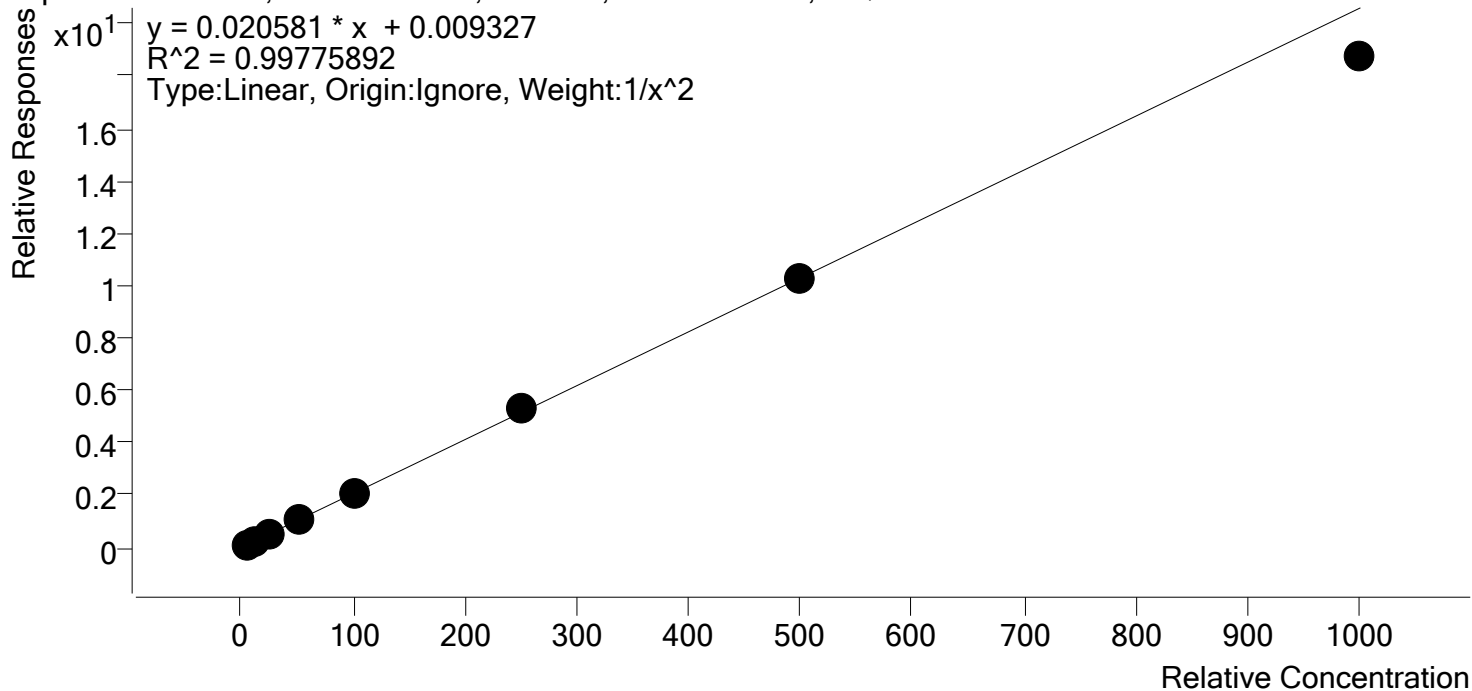
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.5	110.6
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.7
p1 Cal 3 -25ng	3	✓	25.0	24.3	97.1
p1 Cal 4-50ng	4	✓	50.0	48.9	97.8
p1 Cal 5-100ng	5	✓	100.0	95.4	95.4
p1 Cal 6-250ng	6	✓	250.0	244.1	97.6
p1 Cal 7-500ng	7	✓	500.0	496.1	99.2
p1 Cal 8-1000ng	8	✓	1000.0	1015.7	101.6



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 5/14/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte Zolpidem **Internal Standard** Zolpidem-D6

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.8
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.2
p1 Cal 3 -25ng	3	✓	25.0	25.1	100.4
p1 Cal 4-50ng	4	✓	50.0	52.3	104.6
p1 Cal 5-100ng	5	✓	100.0	101.6	101.6
p1 Cal 6-250ng	6	✓	250.0	259.4	103.8
p1 Cal 7-500ng	7	✓	500.0	498.0	99.6
p1 Cal 8-1000ng	8	✓	1000.0	910.7	91.1

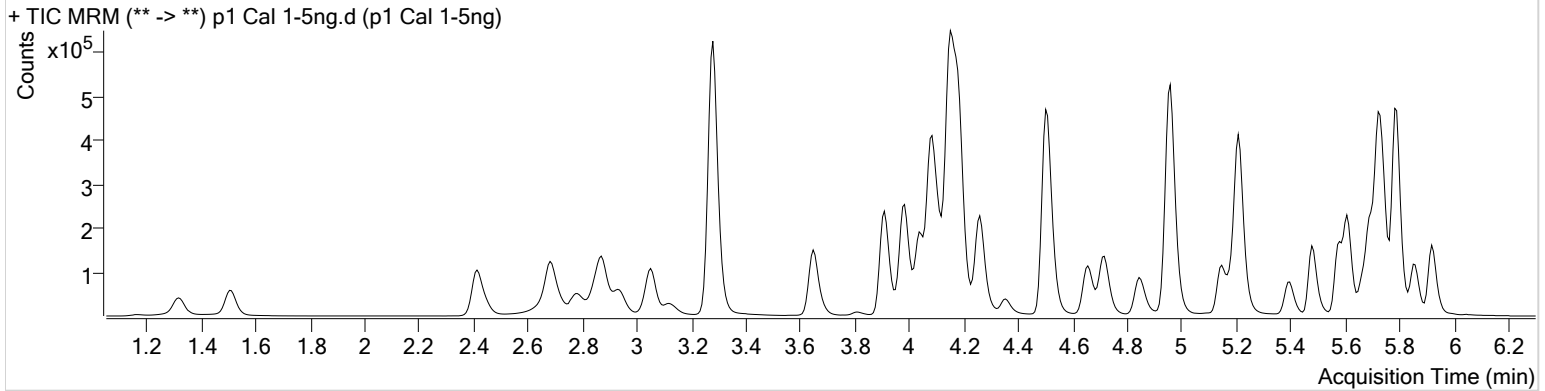
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Calibration Last Update 5/14/2020 1:37:58 PM

Instrument	Falco	Data File	p1 Cal 1-5ng.d
Type	Cal	Sample	p1 Cal 1-5ng
Acq. Method	MDQ P1 01112020.m	Operator	Celena Shrum
Sample Position	P1-A1	Comment	
Injection Volume	2		
Acq. Date-Time	5/12/2020 2:40:00 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.042	662	994.13	74.1	82.92	27445	0.5006 ng/ml
7-aminoclonazepam	3.996	20928	1086.00	80.8	2081.99	162024	4.8798 ng/ml
a-hydroxyalprazolam	5.674	10284	199.52	72.0	175.80	50554	4.9380 ng/ml
alpha-PVP	4.270	53601	3671.26	51.5	727.98	452281	5.4271 ng/ml
Alprazolam	5.750	43751	271.08	104.5	709.74	227215	5.4742 ng/ml
Amphetamine	2.934	76310	1778.04	49.5	1539.98	159816	4.8731 ng/ml
Benzoylcegonine	3.840	2734	117.46	7.8	15.54	18390	5.0854 ng/ml
Buprenorphine	5.409	1044	46.90	16.9	28.49	74640	0.5283 ng/ml
Bupropion	4.672	37783	1675.39	58.4	397.52	255901	4.8053 ng/ml
Carisoprodol	5.699	37168	13612.90	54.3	1037.15	354607	4.9343 ng/ml
Citalopram	5.148	26556	451.50	40.1	1041.59	239796	4.9279 ng/ml
Clonazepam	5.587	51147	3378.62	35.4	62371.93	123093	4.9025 ng/ml
Cocaine	4.184	56672	1175.33	45.2	2487.69	825478	5.1836 ng/ml
Codeine	2.449	8076	780.07	104.5	1072.87	71022	4.8067 ng/ml
Cyclobenzaprine	5.577	15523	1785.97	9.3	50.67	124548	5.0243 ng/ml
Dextromethorphan	5.184	14220	1051.23	78.5	475.27	129277	5.1059 ng/ml
Dextrorphan	4.038	14635	519.34	214.7	2002.48	373925	5.1763 ng/ml
Diazepam	5.928	30368	583.14	87.1	418.20	281396	4.9290 ng/ml
Dihydrocodeine	2.447	20505	719.92	66.9	816.43	217977	4.7997 ng/ml
Diphenhydramine	5.212	62094	663.00	33.7	639.10	891971	5.3058 ng/ml
Doxylamine	4.112	128725	17765.66	97.0	18975.77	1085608	4.1584 ng/ml
EDDP	5.190	424	7.48 Low	34.4	16.00	2347	5.5281 ng/ml
Fentanyl	4.959	1882	195.79	57.3	1845.50	188797	0.4985 ng/ml
Fluoxetine	5.669	11384	432.52	7.4	∞	93249	4.7100 ng/ml
Hydrocodone	2.897	23138	82.22	40.1	69.93	310990	4.8080 ng/ml
Hydromorphone	1.513	18104	1038.77	82.2	895.10	129919	5.0715 ng/ml
Ketamine	3.925	60676	2247.10	38.6	452.59	535931	4.9309 ng/ml
Lamotrigine	4.160	5278	300.95	78.9	1228.73	535931	4.9087 ng/ml
Lorazepam	5.728	47077	2336.05	53.4	108.37	123093	4.9664 ng/ml
Meprobamate	4.868	20372	419.71	27.3	96.42	212640	4.8474 ng/ml
Methadone	5.615	38316	364.58	53.5	1174.56	354784	5.2759 ng/ml
Methamphetamine	3.121	35619	441.82	40.9	167.40	286748	4.9180 ng/ml
Metoprolol	4.253	10574	2200.48	98.7	568.74	1360778	4.9440 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.355	55496	1803.17	49.7	849.58	452281	5.2565 ng/ml
Mitragynine	5.092	3807	704.52	41.1	3403.04	354784	5.3793 ng/ml
Morphine	1.166	2540	354.35	24.9	84.47	4886	5.0466 ng/ml
Norbuprenorphine	4.916	139	2.91 Low	82.3	7.03 Low	8235	1.1591 ng/ml
Nordiazepam	5.861	30461	1034.13	57.5	932.07	192640	4.8819 ng/ml
Norfentanyl	4.007	5532	197.19	40.0	28.91	465952	0.4942 ng/ml
Norhydrocodone	2.972	2161	50.49	46.6	102.72	47444	5.1747 ng/ml
Noroxycodone	2.803	22767	444.09	50.7	641.33	137709	5.0140 ng/ml
O-desmethyl-tramadol	3.287	138203	2112.61	5.9	365.42	1457360	5.0629 ng/ml
Oxazepam	5.732	51659	∞	73.5	315.62	603842	4.9193 ng/ml
Oxycodone	2.713	46772	685.05	31.1	596.54	414503	4.9455 ng/ml
Oxymorphone	1.323	17145	∞	48.1	194.13	122295	4.9835 ng/ml
Phentermine	3.684	17037	151.98	3.0	19.43	394690	4.8001 ng/ml
Promethazine	5.481	35403	397.19	29.7	229.43	306462	5.3188 ng/ml
Quetiapine	5.396	26813	349166.34	62.2	34336.49	71709	5.0135 ng/ml
Sertraline	5.730	8358	256.47	89.8	30243.89	69439	5.2165 ng/ml
Temazepam	5.792	84620	330.89	29.3	236.20	907366	5.0316 ng/ml
Tramadol	4.166	144799	1138.50	3.5	103.94	1360778	4.9626 ng/ml
Trazodone	4.721	34307	910.39	78.6	875.61	288010	5.4784 ng/ml
Venlafaxine	4.960	102958	15653.40	35.1	748.61	1055920	5.5290 ng/ml
Zolpidem	4.521	124961	63999.04	30.3	1100.04	1115923	4.9877 ng/ml

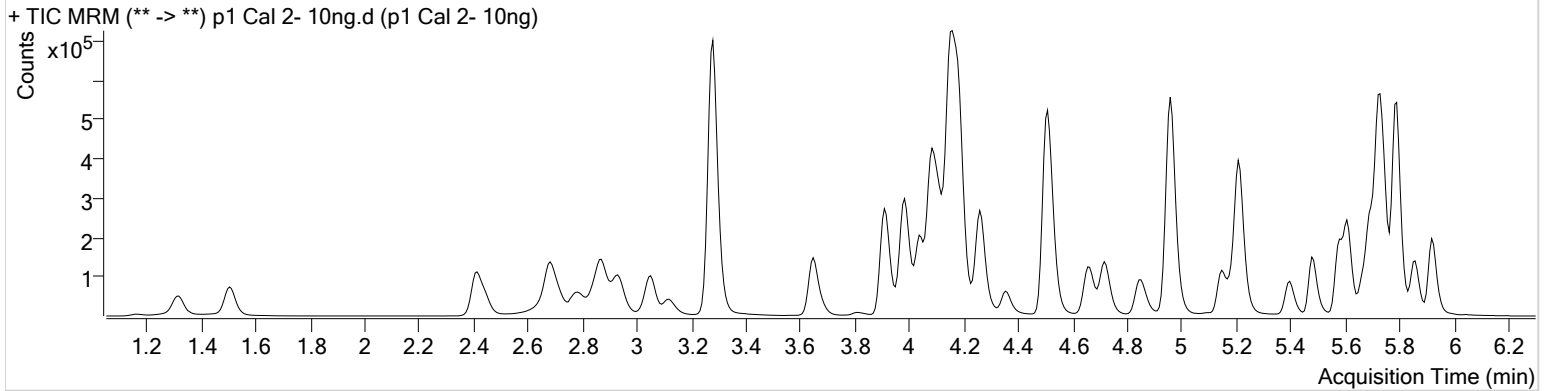
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Calibration Last Update 5/14/2020 1:37:58 PM

Instrument	Falco	Data File	p1 Cal 2- 10ng.d
Type	Cal	Sample	p1 Cal 2- 10ng
Acq. Method	MDQ P1 01112020.m	Operator	Celena Shrum
Sample Position	P1-B1	Comment	
Injection Volume	2		
Acq. Date-Time	5/12/2020 2:50:44 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.036	1411	192.05	68.9	3159.43	29565	1.0168 ng/ml
7-aminoclonazepam	3.996	46263	1761.84	83.2	∞	187409	10.0913 ng/ml
a-hydroxyalprazolam	5.674	22089	298.50	59.8	347.89	53625	9.9916 ng/ml
alpha-PVP	4.270	104286	13519.66	50.9	1594.97	455614	10.1008 ng/ml
Alprazolam	5.750	88153	785.87	102.4	346.72	231402	10.0987 ng/ml
Amphetamine	2.934	155243	130.65	50.0	2465.81	169901	10.1835 ng/ml
Benzoylcegonine	3.833	4949	474.96	8.4	30.47	17861	9.6887 ng/ml
Buprenorphine	5.415	1643	35.88	17.1	52.18	70342	0.8853 ng/ml
Bupropion	4.672	70974	1131.96	59.4	262.81	243436	9.8802 ng/ml
Carisoprodol	5.699	75310	237315.95	53.7	190.87	368075	10.0535 ng/ml
Citalopram	5.148	47295	2532.34	40.4	1261.67	212730	9.9817 ng/ml
Clonazepam	5.587	104599	3862.72	34.0	1117.45	124802	10.2257 ng/ml
Cocaine	4.184	110046	12109.49	46.3	1129.12	831448	9.9275 ng/ml
Codeine	2.449	16505	320.61	100.6	597.46	74973	10.2528 ng/ml
Cyclobenzaprine	5.577	26114	1429.80	9.0	508.75	102035	10.1381 ng/ml
Dextromethorphan	5.184	24406	118196.92	75.2	∞	110286	10.2871 ng/ml
Dextrorphan	4.038	28119	2947.16	210.2	2738.13	359636	10.2124 ng/ml
Diazepam	5.928	63800	1087.70	86.2	5068.55	297562	10.1761 ng/ml
Dihydrocodeine	2.441	42672	605.27	66.3	716.85	227374	10.3524 ng/ml
Diphenhydramine	5.212	109286	1249.67	33.5	928.53	788579	10.1400 ng/ml
Doxylamine	4.112	250116	13288.88	97.2	41663.17	1091761	9.4112 ng/ml
EDDP	5.190	817	72.51	41.7	37.91	2831	8.8379 ng/ml
Fentanyl	4.965	2869	243.12	60.7	∞	152483	1.0181 ng/ml
Fluoxetine	5.669	20892	67342.00	9.0	5463.94	85799	10.0410 ng/ml
Hydrocodone	2.897	48258	384.91	38.8	336.66	324341	10.0531 ng/ml
Hydromorphone	1.513	38098	3513.03	76.8	1205.31	152451	9.4861 ng/ml
Ketamine	3.925	123461	595.40	37.2	649.02	557311	10.1290 ng/ml
Lamotrigine	4.160	10044	5928.07	82.0	543.07	557311	10.0661 ng/ml
Lorazepam	5.728	89230	245.16	56.5	462.12	124802	10.0112 ng/ml
Meprobamate	4.868	41863	461.50	25.0	508.75	214285	10.4111 ng/ml
Methadone	5.615	63724	697.60	52.1	16242.63	314129	9.8170 ng/ml
Methamphetamine	3.114	63222	596.47	42.5	571.67	269156	10.0846 ng/ml
Metoprolol	4.253	21055	1139.76	97.3	∞	1389866	10.2688 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.355	97568	4051.32	48.5	1203.30	455614	9.7058 ng/ml
Mitragynine	5.092	5937	4079.01	40.0	104.76	314129	9.0308 ng/ml
Morphine	1.166	5417	1213.13	24.6	228.78	5607	9.7510 ng/ml
Norbuprenorphine	4.910	166	8.15 Low	104.5 High	35.09	7576	1.4011 ng/ml
Nordiazepam	5.861	61872	1614.90	55.7	612.53	193252	10.3623 ng/ml
Norfentanyl	4.006	11893	259.62	38.1	117.58	520006	1.0002 ng/ml
Norhydrocodone	2.965	4827	151.17	41.7	27.57	51227	9.8435 ng/ml
Noroxycodone	2.803	45416	330.73	52.4	448.07	146612	9.7883 ng/ml
O-desmethyl-tramadol	3.287	276800	5551.14	6.1	1365.52	1516396	9.8289 ng/ml
Oxazepam	5.731	104730	3995.37	72.5	∞	632474	10.0337 ng/ml
Oxycodone	2.707	96773	860.41	30.9	1909.66	443570	10.0706 ng/ml
Oxymorphone	1.317	34439	87.83	49.3	356.05	125230	10.0745 ng/ml
Phentermine	3.684	33005	809.73	2.8	62.13	385319	10.4125 ng/ml
Promethazine	5.481	54689	535.76	30.5	383.09	257998	9.6877 ng/ml
Quetiapine	5.396	47921	1783.95	59.3	10663.08	64078	9.9578 ng/ml
Sertraline	5.730	14326	∞	86.5	1120.86	61848	9.9527 ng/ml
Temazepam	5.792	173295	1636.51	29.3	606.91	945435	9.9417 ng/ml
Tramadol	4.166	280152	1767.17	3.5	106.13	1389866	10.0779 ng/ml
Trazodone	4.721	56859	3586.51	80.1	6534.40	246124	10.1729 ng/ml
Venlafaxine	4.960	192462	873.34	36.7	592.95	1030792	10.0684 ng/ml
Zolpidem	4.521	246253	10109.76	30.9	4829.73	1153581	9.9188 ng/ml

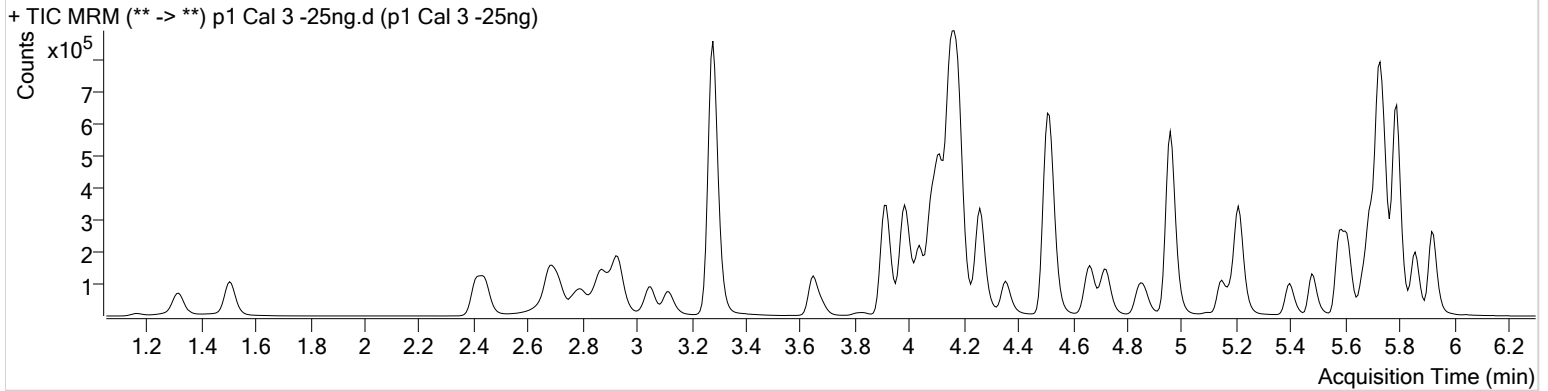


AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Calibration Last Update 5/14/2020 1:37:58 PM

Instrument	Falco	Data File	p1 Cal 3 -25ng.d
Type	Cal	Sample	p1 Cal 3 -25ng
Acq. Method	MDQ P1 01112020.m	Operator	Celena Shrum
Sample Position	P1-C1	Comment	
Injection Volume	2		
Acq. Date-Time	5/12/2020 3:01:20 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.042	3207	1184.44	69.9	666.78	28928	2.3977 ng/ml
7-aminoclonazepam	3.996	109081	425.46	81.9	371.71	177698	26.3427 ng/ml
a-hydroxyalprazolam	5.674	51240	270.44	66.8	359.70	48183	25.7831 ng/ml
alpha-PVP	4.270	221307	13097.52	52.0	1793.22	396301	24.0544 ng/ml
Alprazolam	5.750	205380	635.58	104.5	885.14	216987	23.9811 ng/ml
Amphetamine	2.934	305001	4491.25	50.1	5607.26	137394	26.0835 ng/ml
Benzoyllecgonine	3.833	12360	369.40	7.6	54.78	17607	24.9216 ng/ml
Buprenorphine	5.415	3292	221.04	15.9	63.48	49651	2.5199 ng/ml
Bupropion	4.672	149942	7334.32	58.5	2785.62	207806	25.0444 ng/ml
Carisoprodol	5.699	174145	1688.17	54.0	888.87	345903	25.3840 ng/ml
Citalopram	5.148	82658	965.79	41.1	631.14	151113	24.6872 ng/ml
Clonazepam	5.587	248576	∞	34.0	7072.09	122736	25.1795 ng/ml
Cocaine	4.184	252420	624.84	45.8	4753.55	755960	24.9375 ng/ml
Codeine	2.449	40576	272.96	101.9	953.55	73903	27.0826 ng/ml
Cyclobenzaprine	5.577	41608	1156.28	8.4	68.37	68693	23.7613 ng/ml
Dextromethorphan	5.184	41036	431.75	78.6	442.69	76576	24.9312 ng/ml
Dextrorphan	4.038	53985	3272.99	216.3	32660.20	287848	24.3171 ng/ml
Diazepam	5.928	147949	3546.31	89.0	2460.60	287817	24.9401 ng/ml
Dihydrocodeine	2.441	103935	4542.07	66.3	845.87	222257	26.9597 ng/ml
Diphenhydramine	5.212	187748	741.33	33.4	478.66	547177	24.4756 ng/ml
Doxylamine	4.112	527557	12566.43	97.2	43246.10	929177	25.5079 ng/ml
EDDP	5.183	1293	17.81	40.8	23.85	1604	24.6938 ng/ml
Fentanyl	4.965	4577	192.42	70.0	162.91	107600	2.4102 ng/ml
Fluoxetine	5.669	40565	33996.27	8.9	6074.36	66699	26.0536 ng/ml
Hydrocodone	2.897	113178	162.25	39.0	155.19	280017	28.0620 ng/ml
Hydromorphone	1.513	88947	2291.09	84.0	∞	134670	25.8820 ng/ml
Ketamine	3.925	297642	47851.53	38.8	1791.80	549264	25.5036 ng/ml
Lamotrigine	4.154	24189	∞	81.4	6599.16	549264	26.4789 ng/ml
Lorazepam	5.722	214757	∞	56.9	1220.42	122736	25.7099 ng/ml
Meprobamate	4.868	93693	5087.82	26.8	1900.53	204536	25.0928 ng/ml
Methadone	5.615	108194	673.27	54.4	262.45	213225	24.3964 ng/ml
Methamphetamine	3.114	130762	1997.06	42.0	447.25	228646	25.8173 ng/ml
Metoprolol	4.253	44916	2030.27	99.1	821.98	1334819	23.6203 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.355	173045	5510.79	48.6	2489.41	396301	20.5320 ng/ml
Mitragynine	5.092	10297	73574.91	40.2	289.37	213225	22.1660 ng/ml
Morphine	1.166	13057	381.08	24.4	100.05	5404	25.0407 ng/ml
Norbuprenorphine	4.916	246	14.69	90.2	37.90	5806	2.3967 ng/ml
Nordiazepam	5.861	143346	1537.57	58.1	1389.22	187190	25.4339 ng/ml
Norfentanyl	4.006	32309	810.20	36.5	230.33	567446	2.5673 ng/ml
Norhydrocodone	2.965	10636	113.60	45.5	143.37	46125	22.9270 ng/ml
Noroxycodone	2.796	111870	1700.62	50.9	1484.58	143357	25.3431 ng/ml
O-desmethyl-tramadol	3.287	683550	27794.04	6.0	1394.33	1504527	24.5980 ng/ml
Oxazepam	5.732	247061	8619.92	69.9	∞	590134	26.2046 ng/ml
Oxycodone	2.707	230787	1992.84	31.9	1357.54	433401	25.3655 ng/ml
Oxymorphone	1.317	83366	1271.80	49.4	∞	126509	24.5752 ng/ml
Phentermine	3.684	65439	871.12	2.8	59.13	318806	26.2110 ng/ml
Promethazine	5.481	90574	838.94	31.0	916.46	168971	24.3660 ng/ml
Quetiapine	5.396	87955	2859.66	61.4	4900.88	46436	25.1136 ng/ml
Sertraline	5.730	23624	230.49	86.7	3732.79	40060	25.1959 ng/ml
Temazepam	5.792	403754	1466.76	30.2	1355.94	888982	24.7140 ng/ml
Tramadol	4.166	638976	4501.51	3.5	193.92	1334819	24.9756 ng/ml
Trazodone	4.721	106749	2961.69	80.3	1319.29	184997	24.6890 ng/ml
Venlafaxine	4.960	393944	2271.71	36.0	2176.02	845236	24.2839 ng/ml
Zolpidem	4.521	589828	13492.78	30.3	5261.78	1121066	25.1104 ng/ml

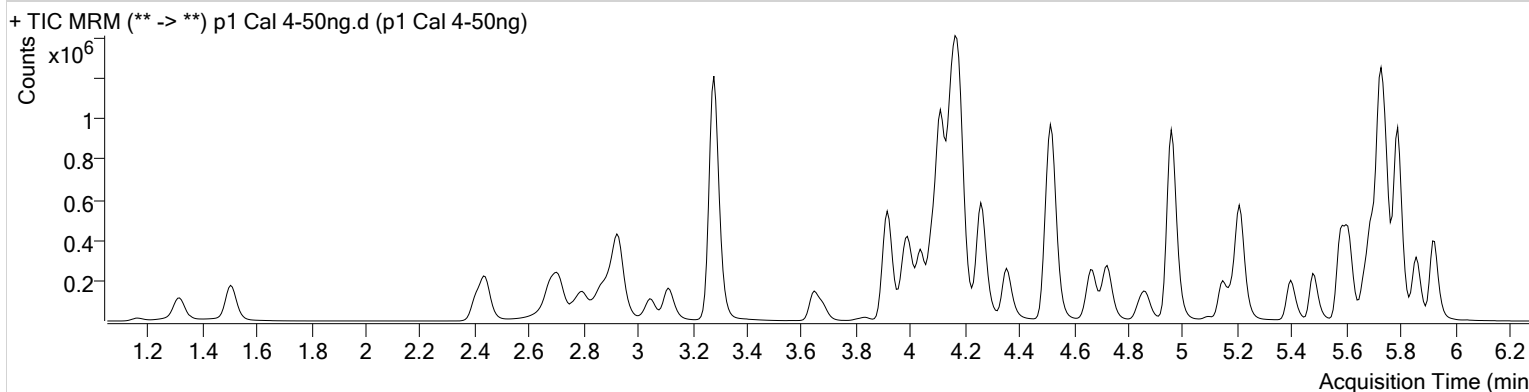
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Calibration Last Update 5/14/2020 1:37:58 PM

Instrument	Falco	Data File	p1 Cal 4-50ng.d
Type	Cal	Sample	p1 Cal 4-50ng
Acq. Method	MDQ P1 01112020.m	Operator	Celena Shrum
Sample Position	P1-D1	Comment	
Injection Volume	2		
Acq. Date-Time	5/12/2020 3:11:54 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.036	7210	1396.98	71.3	2429.32	32149	4.8779 ng/ml
7-aminoclonazepam	3.996	242583	12371.51	83.2	2557.99	196723	53.7645 ng/ml
a-hydroxyalprazolam	5.674	112737	521.82	63.4	401.98	51299	53.2740 ng/ml
alpha-PVP	4.270	518755	20085.72	51.1	1337.34	450067	49.2137 ng/ml
Alprazolam	5.750	421441	1000.42	103.8	3386.92	217803	48.2439 ng/ml
Amphetamine	2.927	745336	16110.02	50.7	22765.71	165971	53.7264 ng/ml
Benzoylcegonine	3.833	26185	∞	7.9	192.54	18651	50.0858 ng/ml
Buprenorphine	5.415	8090	521.01	16.6	∞	61166	5.0300 ng/ml
Bupropion	4.672	315043	1084.09	59.2	984.17	214139	51.4819 ng/ml
Carisoprodol	5.699	363076	1543931.29	54.7	∞	345983	53.3909 ng/ml
Citalopram	5.148	208571	453.32	40.7	1088.44	182198	51.7614 ng/ml
Clonazepam	5.587	516781	13325.64	33.8	868222.37	123040	52.5736 ng/ml
Cocaine	4.184	575629	50606.26	45.6	17515.60	862367	49.7808 ng/ml
Codeine	2.442	86372	4064.40	101.7	1294.99	79074	54.8798 ng/ml
Cyclobenzaprine	5.577	110059	818.87	9.2	310.43	87034	49.4223 ng/ml
Dextromethorphan	5.184	104488	472.50	79.6	577.93	97183	50.0346 ng/ml
Dextrorphan	4.038	133332	1757.12	209.1	66304.79	342682	50.3108 ng/ml
Diazepam	5.928	311489	1141.17	87.1	1087.85	288645	52.7849 ng/ml
Dihydrocodeine	2.441	219159	3673.15	66.8	14237.69	238108	53.8191 ng/ml
Diphenhydramine	5.212	481082	932.20	33.2	2328.65	683811	49.7365 ng/ml
Doxylamine	4.112	1263552	31079.38	94.9	40459.29	1106493	52.7975 ng/ml
EDDP	5.190	3641	149.28	38.2	83.49	2174	51.3438 ng/ml
Fentanyl	4.959	11663	262.63	65.4	926.94	134694	4.9962 ng/ml
Fluoxetine	5.669	90147	567.29	8.8	3466.15	76840	50.8618 ng/ml
Hydrocodone	2.897	251565	∞	39.5	∞	308470	57.0671 ng/ml
Hydromorphone	1.506	197553	3082.68	83.1	9079.46	148305	52.7012 ng/ml
Ketamine	3.925	642947	31771.14	38.6	4181.12	591410	51.6708 ng/ml
Lamotrigine	4.160	50015	∞	79.9	6885.68	591410	52.0475 ng/ml
Lorazepam	5.722	425522	1626.77	55.9	3292.71	123040	51.6318 ng/ml
Meprobamate	4.868	206329	18729.38	25.5	1829.54	208873	54.6979 ng/ml
Methadone	5.615	279489	1285.94	53.0	9337.79	265668	50.4675 ng/ml
Methamphetamine	3.114	298831	3093.93	42.4	2406.47	261620	52.4421 ng/ml
Metoprolol	4.253	106468	∞	96.6	∞	1463838	51.8254 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.355	430263	6913.41	49.0	3190.67	450067	45.8017 ng/ml
Mitragynine	5.092	27908	1769.90	38.0	717.39	265668	47.5349 ng/ml
Morphine	1.166	28345	741.25	24.3	870.44	5811	50.9928 ng/ml
Norbuprenorphine	4.910	731	39.91	77.1	31.63	6949	5.4569 ng/ml
Nordiazepam	5.861	296298	5029.84	58.2	2455.70	193891	51.2194 ng/ml
Norfentanyl	4.007	61553	5661.12	36.8	152.64	532579	5.2646 ng/ml
Norhydrocodone	2.965	24163	209.15	44.7	162.36	51298	45.9947 ng/ml
Noroxycodone	2.796	244524	7004.60	50.1	1303.50	153088	52.3455 ng/ml
O-desmethyl-tramadol	3.281	1478411	∞	6.0	2158.05	1601155	50.0840 ng/ml
Oxazepam	5.731	482888	∞	72.5	6230.59	589082	51.8334 ng/ml
Oxycodone	2.707	506486	10774.41	31.9	4982.58	468315	52.0791 ng/ml
Oxymorphone	1.317	181218	4315.68	49.9	∞	135547	50.1785 ng/ml
Phentermine	3.684	153680	2247.24	2.7	106.18	370364	53.9068 ng/ml
Promethazine	5.481	234781	2586.03	31.7	1255.51	213531	49.8894 ng/ml
Quetiapine	5.396	219624	2072.97	61.0	312560.79	57862	50.2566 ng/ml
Sertraline	5.730	59129	508.81	87.0	1067.47	49440	51.0034 ng/ml
Temazepam	5.792	838449	2665.38	29.9	1446.75	919384	49.6794 ng/ml
Tramadol	4.166	1418121	2193.79	3.4	524.49	1463838	51.3201 ng/ml
Trazodone	4.721	264449	5173.68	79.2	10769.63	227350	49.2791 ng/ml
Venlafaxine	4.960	953091	74585.39	35.8	1659.86	1003412	48.9010 ng/ml
Zolpidem	4.521	1280116	21404.97	30.5	12541.66	1179526	52.2783 ng/ml

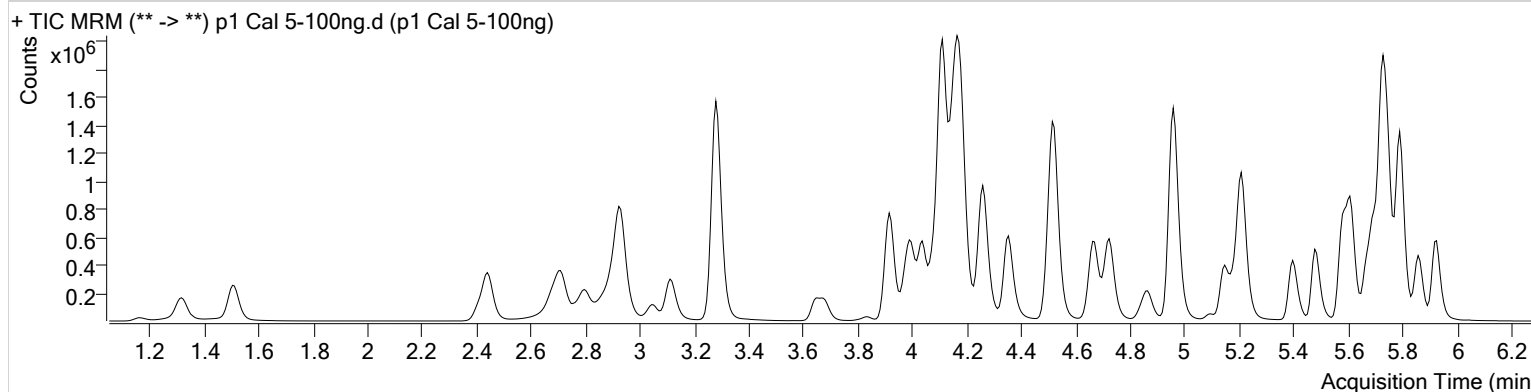
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Calibration Last Update 5/14/2020 1:37:58 PM

Instrument	Falco	Data File	p1 Cal 5-100ng.d
Type	Cal	Sample	p1 Cal 5-100ng
Acq. Method	MDQ P1 01112020.m	Operator	Celena Shrum
Sample Position	P1-E1	Comment	
Injection Volume	2		
Acq. Date-Time	5/12/2020 3:22:29 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.036	13103	3819.76	66.7	1990.38	28115	10.1651 ng/ml
7-aminoclonazepam	3.996	451882	7766.78	83.4	8616.36	191877	103.4457 ng/ml
a-hydroxyalprazolam	5.674	195713	766.41	63.4	288.29	47354	100.1825 ng/ml
alpha-PVP	4.263	1041373	113149.12	50.8	13031.57	457434	96.8039 ng/ml
Alprazolam	5.750	739579	3364.16	103.1	5744.57	192790	94.9122 ng/ml
Amphetamine	2.934	1481454	∞	50.9	26027.68	172628	103.5262 ng/ml
Benzoylecgonine	3.833	47582	1696.03	7.9	413.28	17497	97.2417 ng/ml
Buprenorphine	5.409	19623	303.32	17.3	626.12	77984	9.5728 ng/ml
Bupropion	4.672	814489	5600.30	59.5	3342.00	288607	99.1234 ng/ml
Carisoprodol	5.699	635989	79823.52	54.7	2187.05	318558	101.9741 ng/ml
Citalopram	5.148	514868	1853.61	40.4	1433.26	237978	97.9042 ng/ml
Clonazepam	5.587	915894	27168.52	32.8	2228.39	109609	104.9221 ng/ml
Cocaine	4.177	1024555	51327.10	45.3	28302.34	781917	97.6522 ng/ml
Codeine	2.449	141683	995.23	102.3	24320.18	68912	104.1915 ng/ml
Cyclobenzaprine	5.577	300511	1069.35	9.3	564.68	119383	98.2110 ng/ml
Dextromethorphan	5.184	257650	10737.77	80.3	2851.96	122983	97.5077 ng/ml
Dextrorphan	4.038	279067	2539.93	209.6	1988.53	369415	97.5604 ng/ml
Diazepam	5.928	536520	5068.39	87.6	3910.29	260349	101.1537 ng/ml
Dihydrocodeine	2.441	369140	3767.67	66.0	2568.18	212406	102.3128 ng/ml
Diphenhydramine	5.212	1187675	104218.73	33.0	4751.91	866755	96.4666 ng/ml
Doxylamine	4.112	2621554	83050.80	95.7	63103.60	1159921	105.9424 ng/ml
EDDP	5.190	7790	118.70	40.1	48.70	2398	99.5964 ng/ml
Fentanyl	4.959	30908	6149.16	65.6	595.31	177198	10.1519 ng/ml
Fluoxetine	5.669	253666	13678.22	8.8	11637.34	111009	99.6838 ng/ml
Hydrocodone	2.897	434901	163.19	39.4	237.75	309985	98.4902 ng/ml
Hydromorphone	1.513	343287	4987.52	73.7	15121.67	140215	97.2759 ng/ml
Ketamine	3.918	1118063	486399.59	38.2	7681.20	530599	100.6233 ng/ml
Lamotrigine	4.154	87447	7147.32	79.4	33846.89	530599	102.6677 ng/ml
Lorazepam	5.722	688486	3836.08	57.3	7047.02	109609	94.4582 ng/ml
Meprobamate	4.868	359618	1148.58	26.0	5997.32	194267	102.9456 ng/ml
Methadone	5.615	697953	2521.74	54.7	46603.24	340212	98.3145 ng/ml
Methamphetamine	3.114	570364	3671.44	42.2	2321.26	257543	102.5053 ng/ml
Metoprolol	4.253	204074	88600.29	94.5	7226.86	1317269	111.1400 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.355	1030242	6518.77	49.0	2428.94	457434	108.8710 ng/ml
Mitragynine	5.092	73498	10340.01	38.5	80580.33	340212	97.1394 ng/ml
Morphine	1.166	50035	425.57	24.0	234.40	5177	101.4789 ng/ml
Norbuprenorphine	4.910	1818	196.81	82.6	84.26	9154	10.0022 ng/ml
Nordiazepam	5.861	518295	3289.77	57.1	3246.03	175166	99.6081 ng/ml
Norfentanyl	4.006	122516	1586.59	37.8	1598.38	551568	10.1660 ng/ml
Norhydrocodone	2.965	43751	246.44	43.0	191.12	46082	91.8915 ng/ml
Noroxycodone	2.796	425006	4840.15	50.1	1450.84	137652	101.6040 ng/ml
O-desmethyl-tramadol	3.281	2541272	11006.45	6.0	6007.86	1424907	96.8230 ng/ml
Oxazepam	5.732	834463	14243.28	70.5	4300.46	516639	102.6627 ng/ml
Oxycodone	2.707	869998	5912.83	31.9	4530.13	416180	101.1719 ng/ml
Oxymorphone	1.317	323951	1089.25	48.9	∞	116079	105.0830 ng/ml
Phentermine	3.684	314957	16258.18	2.7	481.73	391726	105.2986 ng/ml
Promethazine	5.481	652897	17014.93	30.9	1724.80	298158	99.2730 ng/ml
Quetiapine	5.396	538919	9467.41	61.1	20186.02	74212	96.0873 ng/ml
Sertraline	5.730	153596	2035.03	88.8	2172.22	67430	97.0567 ng/ml
Temazepam	5.792	1525299	5132.32	29.5	1439.67	850420	97.7578 ng/ml
Tramadol	4.166	2519833	∞	3.4	1267.89	1317269	102.0744 ng/ml
Trazodone	4.721	664813	10372.11	79.9	38603.99	299547	93.5896 ng/ml
Venlafaxine	4.960	1985247	7892.83	35.9	6548.62	1065571	95.3711 ng/ml
Zolpidem	4.521	2276078	30035.18	30.1	37979.18	1083184	101.6437 ng/ml

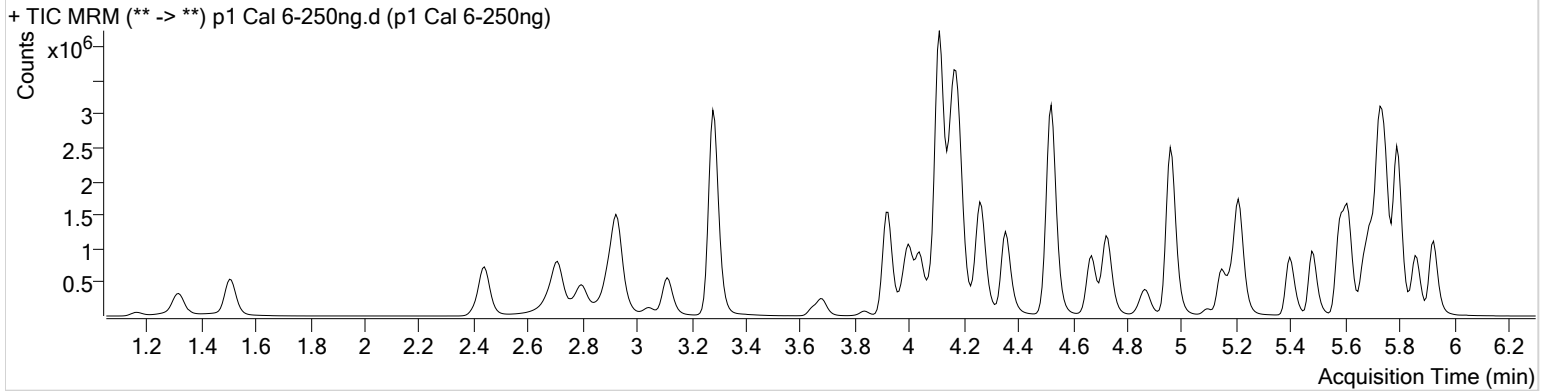
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Calibration Last Update 5/14/2020 1:37:58 PM

Instrument	Falco	Data File	p1 Cal 6-250ng.d
Type	Cal	Sample	p1 Cal 6-250ng
Acq. Method	MDQ P1 01112020.m	Operator	Celena Shrum
Sample Position	P1-F1	Comment	
Injection Volume	2		
Acq. Date-Time	5/12/2020 3:33:03 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.036	33256	2189.26	67.4	491.65	28812	25.2158 ng/ml
7-aminoclonazepam	3.996	1065576	4623.19	81.7	13008.73	183803	255.8774 ng/ml
a-hydroxyalprazolam	5.674	444100	1046.81	64.1	625.48	41850	257.2125 ng/ml
alpha-PVP	4.270	2081548	16458.01	50.9	39184.21	356741	247.4733 ng/ml
Alprazolam	5.750	1620621	1195.80	102.4	∞	156457	255.0046 ng/ml
Amphetamine	2.927	2724731	35811.86	50.7	19082.74	135219	244.3514 ng/ml
Benzoylcegonine	3.833	123475	31739.84	7.8	1512.03	17654	250.4816 ng/ml
Buprenorphine	5.415	41930	1215.32	16.5	467.00	62473	25.5402 ng/ml
Bupropion	4.672	1372278	18316.06	59.4	2735.49	187908	257.1420 ng/ml
Carisoprodol	5.699	1342292	280922.97	54.5	829.18	269278	255.2715 ng/ml
Citalopram	5.148	1056105	5024.81	40.4	3267.97	186279	256.7006 ng/ml
Clonazepam	5.587	1949949	10616.90	33.7	∞	99240	247.1692 ng/ml
Cocaine	4.184	2251881	136873.02	45.2	96289.78	672825	249.3212 ng/ml
Codeine	2.442	311158	1662.63	101.7	15528.27	66065	239.9880 ng/ml
Cyclobenzaprine	5.577	642380	2161.59	9.5	1751.26	101705	246.1717 ng/ml
Dextromethorphan	5.184	546781	746.59	80.7	5628.18	104096	244.4977 ng/ml
Dextrorphan	4.038	546499	3096.49	210.0	4574.32	285758	246.7889 ng/ml
Diazepam	5.928	1193658	956.09	88.3	3922.66	232024	253.1030 ng/ml
Dihydrocodeine	2.441	872215	∞	66.9	3992.08	212716	242.4560 ng/ml
Diphenhydramine	5.212	2454131	12208.44	32.8	1505.49	694842	247.9765 ng/ml
Doxylamine	4.112	5666005	130002.48	97.0	148249.62	983247	272.4077 ng/ml
EDDP	5.190	26130	∞	42.4	∞	4587	174.6354 ng/ml
Fentanyl	4.965	65664	895.84	65.3	680.53	149368	25.7181 ng/ml
Fluoxetine	5.669	567876	1351.51	8.7	9326.95	99071	251.0324 ng/ml
Hydrocodone	2.897	1000127	218.57	40.2	179.26	293422	239.9062 ng/ml
Hydromorphone	1.513	802361	17097.95	78.1	6535.03	126265	253.2678 ng/ml
Ketamine	3.925	2635383	3387.43	38.1	15524.23	502693	251.0931 ng/ml
Lamotrigine	4.154	177312	3942.78	81.3	2352.45	502693	221.2174 ng/ml
Lorazepam	5.722	1165684	∞	58.0	5535.27	99240	177.3666 ng/ml
Meprobamate	4.868	775736	145855.50	25.9	11060.07	177871	243.2226 ng/ml
Methadone	5.615	1476267	5601.32	54.3	13204.15	284550	248.4642 ng/ml
Methamphetamine	3.114	1101145	3318.44	42.7	11265.64	203108	252.2110 ng/ml
Metoprolol	4.253	410398	6775.73	96.5	24657.93	1146638	257.6342 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.355	2130784	28200.34	48.8	7700.39	356741	289.9068 ng/ml
Mitragynine	5.092	164229	10486.07	37.5	6452.01	284550	258.5396 ng/ml
Morphine	1.166	124654	3078.41	24.4	1252.35	5148	254.8598 ng/ml
Norbuprenorphine	4.910	3653	169.22	87.0	∞	7426	24.2802 ng/ml
Nordiazepam	5.861	1146199	∞	57.3	2247.87	154005	251.2554 ng/ml
Norfentanyl	4.007	297958	3519.81	37.0	1092.78	530731	25.7737 ng/ml
Norhydrocodone	2.965	97315	∞	39.7	1480.51	37340	250.8430 ng/ml
Noroxycodone	2.796	965548	3058.08	50.2	3236.58	127725	249.4212 ng/ml
O-desmethyl-tramadol	3.281	6367966	∞	5.8	5654.84	1364864	253.4401 ng/ml
Oxazepam	5.732	1551329	69962.93	70.7	54757.96	383295	258.0790 ng/ml
Oxycodone	2.707	2159630	2076.59	32.1	∞	416048	252.0312 ng/ml
Oxymorphone	1.317	784524	877.21	48.0	∞	115803	255.5346 ng/ml
Phentermine	3.684	605674	5855.83	2.6	1801.25	310218	256.9849 ng/ml
Promethazine	5.481	1463471	43271.40	30.5	2320.73	261152	253.9177 ng/ml
Quetiapine	5.396	1197341	14349.69	59.9	27090.94	64711	244.7159 ng/ml
Sertraline	5.730	281560	9630.35	91.8	900.12	48805	245.6735 ng/ml
Temazepam	5.792	3563994	3739.10	28.8	105589.42	758063	256.3367 ng/ml
Tramadol	4.166	5487795	7693.29	3.3	2700.92	1146638	256.5205 ng/ml
Trazodone	4.721	1533112	13819.06	79.8	33043.67	266051	242.2289 ng/ml
Venlafaxine	4.960	4025909	112882.20	35.7	10585.64	841136	244.1190 ng/ml
Zolpidem	4.521	5728543	∞	29.5	16312.10	1071228	259.3772 ng/ml

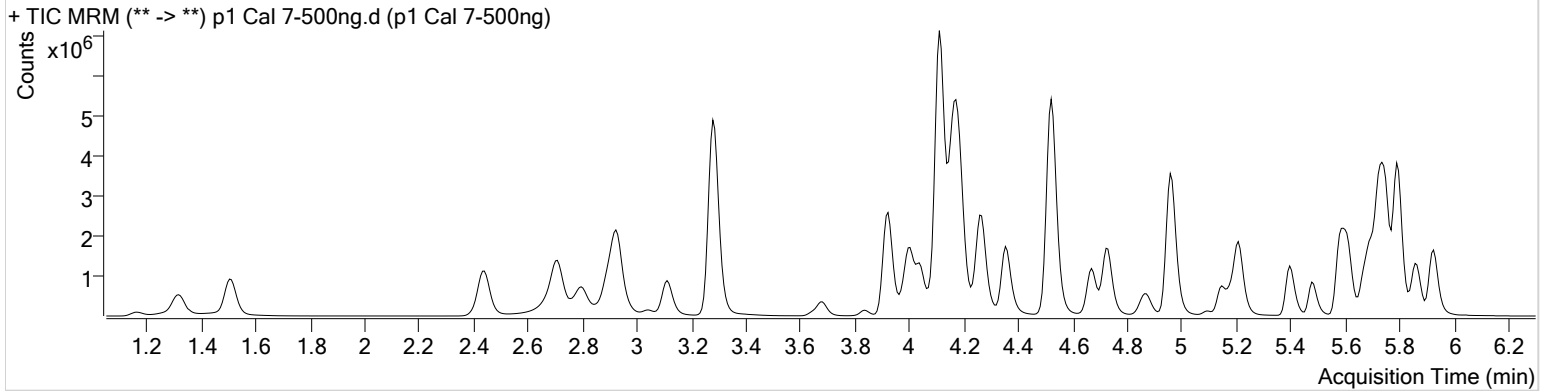
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Calibration Last Update 5/14/2020 1:37:58 PM

Instrument	Falco	Data File	p1 Cal 7-500ng.d
Type	Cal	Sample	p1 Cal 7-500ng
Acq. Method	MDQ P1 01112020.m	Operator	Celena Shrum
Sample Position	P1-G1	Comment	
Injection Volume	2		
Acq. Date-Time	5/12/2020 3:43:38 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.036	63529	1118.91	71.3	2657.49	27741	50.0562 ng/ml
7-aminoclonazepam	3.996	1922504	∞	82.6	4914.53	174211	487.8304 ng/ml
a-hydroxyalprazolam	5.674	740291	1045.44	63.4	847.23	36624	489.9281 ng/ml
alpha-PVP	4.270	3330744	95306.03	50.3	11185.64	286201	493.1814 ng/ml
Alprazolam	5.750	2676018	4956.41	102.0	3309.30	131639	499.7389 ng/ml
Amphetamine	2.927	3843775	38897.45	51.1	18977.26	106539	438.2438 ng/ml
Benzoylcegonine	3.833	249921	1775.74	7.7	4304.89	17668	506.8551 ng/ml
Buprenorphine	5.409	43794	4074.48	16.4	590.77	33468	49.7978 ng/ml
Bupropion	4.672	1855717	4880.17	58.9	2024.54	128930	507.1874 ng/ml
Carisoprodol	5.699	2006212	149003.94	54.9	14895.29	215304	477.5639 ng/ml
Citalopram	5.148	1196968	9332.10	40.3	1361.48	109806	493.6398 ng/ml
Clonazepam	5.587	3254552	2489.26	33.2	3171.54	83535	490.4211 ng/ml
Cocaine	4.184	3762777	242181.02	45.3	123335.18	560047	500.4238 ng/ml
Codeine	2.442	491657	1485.49	100.4	492.94	60429	415.3076 ng/ml
Cyclobenzaprine	5.577	599903	1092.88	9.3	554.48	45682	511.6483 ng/ml
Dextromethorphan	5.184	633543	1021.37	80.9	4789.09	60006	491.4629 ng/ml
Dextrorphan	4.045	765648	3679.98	209.5	2032.96	199060	496.2087 ng/ml
Diazepam	5.928	1954798	∞	87.7	10380.86	197014	488.5135 ng/ml
Dihydrocodeine	2.434	1505607	∞	66.8	∞	208030	428.5499 ng/ml
Diphenhydramine	5.212	2831350	119798.34	32.9	3529.92	406488	488.6258 ng/ml
Doxylamine	4.112	9739226	∞	96.1	545321.44	867522	532.1006 ng/ml
EDDP	5.190	85156	∞	43.2	∞	9353	279.1366 ng/ml
Fentanyl	4.965	61565	469.52	66.2	1246.82	73303	49.2132 ng/ml
Fluoxetine	5.669	511365	2841.29	8.8	6071.09	45215	495.9388 ng/ml
Hydrocodone	2.897	1744910	177.92	39.3	∞	270483	454.4499 ng/ml
Hydromorphone	1.506	1455593	4330.93	78.2	∞	110902	523.6363 ng/ml
Ketamine	3.925	4728618	309860.32	37.5	41054.28	461586	491.1338 ng/ml
Lamotrigine	4.154	262244	∞	81.0	∞	461586	357.1138 ng/ml
Lorazepam	5.722	1385605	5972.73	55.2	3046.20	83535	250.8106 ng/ml
Meprobamate	4.875	1225296	2931.93	25.3	1054.17	153809	444.6943 ng/ml
Methadone	5.615	1650957	3517.02	53.9	12923.59	158848	497.6428 ng/ml
Methamphetamine	3.114	1730712	16226.89	42.5	3290.45	166319	484.9045 ng/ml
Metoprolol	4.253	624787	∞	96.1	∞	965374	466.4030 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.355	2923094	11926.28	48.5	8858.47	286201	496.2346 ng/ml
Mitragynine	5.092	179815	66417.34	38.6	1185.41	158848	506.5217 ng/ml
Morphine	1.166	228127	1128.08	25.0	2969.64	4915	488.9380 ng/ml
Norbuprenorphine	4.910	4194	190.00	85.6	271.46	4283	48.0044 ng/ml
Nordiazepam	5.861	1828660	13140.93	57.1	4314.29	124444	496.5319 ng/ml
Norfentanyl	4.013	537748	933.99	37.6	3054.66	499965	49.4258 ng/ml
Norhydrocodone	2.965	164804	∞	43.0	988.22	29554	535.8106 ng/ml
Noroxycodone	2.796	1593722	1499.68	50.3	6711.02	107814	488.1555 ng/ml
O-desmethyl-tramadol	3.281	11594470	231473.86	5.7	∞	1224045	514.6307 ng/ml
Oxazepam	5.732	1995480	∞	70.4	32752.80	263911	482.6136 ng/ml
Oxycodone	2.707	4049844	∞	31.9	9255.54	400787	491.1343 ng/ml
Oxymorphone	1.317	1321425	3668.63	50.8	∞	100923	494.1664 ng/ml
Phentermine	3.684	858534	14938.23	2.7	3682.77	241849	467.9875 ng/ml
Promethazine	5.481	1332143	117289.48	31.6	10887.90	123395	489.0841 ng/ml
Quetiapine	5.396	1771598	46133.66	60.9	3133.91	45956	509.7840 ng/ml
Sertraline	5.730	217525	9674.69	91.1	13797.25	19524	474.3671 ng/ml
Temazepam	5.792	5983507	169508.45	28.2	851.73	643675	506.8901 ng/ml
Tramadol	4.166	8900478	11584.14	3.3	1375.39	965374	494.8630 ng/ml
Trazodone	4.728	2268265	54275.46	79.8	140844.50	192619	494.5063 ng/ml
Venlafaxine	4.960	6368300	8800.81	34.8	28698.16	653987	496.0724 ng/ml
Zolpidem	4.521	10625814	24525.78	29.3	122786.65	1035767	498.0040 ng/ml

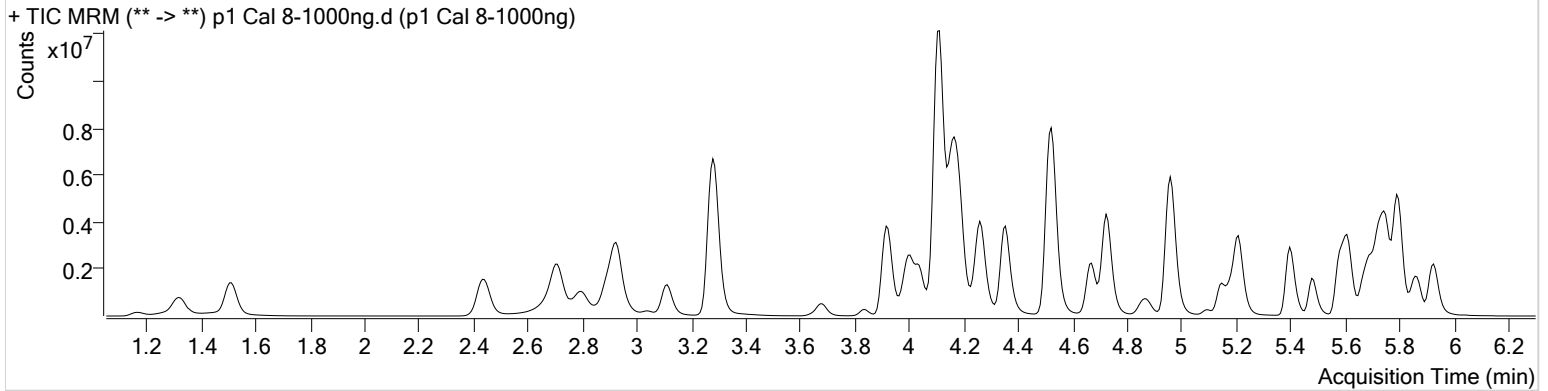
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\051220 AM 27 28 CS\QuantResults\AM 28.batch.bin
Calibration Last Update 5/14/2020 1:37:58 PM

Instrument	Falco	Data File	p1 Cal 8-1000ng.d
Type	Cal	Sample	p1 Cal 8-1000ng
Acq. Method	MDQ P1 01112020.m	Operator	Celena Shrum
Sample Position	P1-H1	Comment	
Injection Volume	2		
Acq. Date-Time	5/12/2020 3:54:12 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.036	123304	4437.40	70.9	2131.29	26400	102.1190 ng/ml
7-aminoclonazepam	3.996	3190467	∞	82.1	2904.67	165602	852.2871 ng/ml
a-hydroxyalprazolam	5.674	1106489	360.70	64.0	1405.05	29605	905.8929 ng/ml
alpha-PVP	4.263	5641116	269449.20	50.2	2151.20	235715	1013.7454 ng/ml
Alprazolam	5.750	3984200	372.36	103.3	2055.52	97622	1002.5463 ng/ml
Amphetamine	2.927	5681579	72763.44	50.8	17890.68	92281	748.5288 ng/ml
Benzoylcegonine	3.833	492548	34524.03	7.9	40696.90	17182	1027.4089 ng/ml
Buprenorphine	5.415	84326	736.54	15.6	3717.01	30011	106.9344 ng/ml
Bupropion	4.672	3629049	3050.69	59.0	20977.57	129833	985.3355 ng/ml
Carisoprodol	5.699	2722678	∞	54.2	37917.48	150330	928.6491 ng/ml
Citalopram	5.148	2307580	2508.57	39.9	20185.23	104467	1000.3972 ng/ml
Clonazepam	5.587	4534655	181525.32	32.6	29158.34	62094	919.5482 ng/ml
Cocaine	4.184	5839295	228278.16	44.5	108115.82	433692	1002.7735 ng/ml
Codeine	2.442	742132	14657.43	98.2	∞	53017	715.2480 ng/ml
Cyclobenzaprine	5.577	1117877	5054.24	9.4	2574.84	41381	1052.3305 ng/ml
Dextromethorphan	5.184	1204568	13651.36	79.0	1848.06	55180	1016.1729 ng/ml
Dextrorphan	4.038	1313772	16388.15	211.3	26433.72	167884	1009.4254 ng/ml
Diazepam	5.928	2918254	∞	85.7	10001.52	152533	942.3125 ng/ml
Dihydrocodeine	2.434	2334765	∞	67.1	∞	190236	727.2636 ng/ml
Diphenhydramine	5.212	5494626	5127.90	32.6	16155.20	378734	1017.2732 ng/ml
Doxylamine	4.112	17859555	202828.89	96.7	175814.56	903834	937.6742 ng/ml
EDDP	5.183	381084	1624.63	42.5	∞	22187	526.6255 ng/ml
Fentanyl	4.965	105333	8749.66	66.6	48164.11	62188	99.3353 ng/ml
Fluoxetine	5.669	896294	35011.58	8.7	1711.90	39263	1001.6785 ng/ml
Hydrocodone	2.891	2868599	143.83	39.9	159.48	220759	915.8319 ng/ml
Hydromorphone	1.513	2416699	2974.88	77.3	4152.98	105451	914.6949 ng/ml
Ketamine	3.918	7650156	437122.50	37.1	7531.70	384448	954.4783 ng/ml
Lamotrigine	4.148	320303	∞	79.3	∞	384448	524.3001 ng/ml
Lorazepam	5.722	1393492	∞	56.3	4313.10	62094	339.6281 ng/ml
Meprobamate	4.868	1767850	1499.82	25.2	735.37	131391	751.4235 ng/ml
Methadone	5.615	3204137	2406.59	53.0	739.35	152544	1005.6217 ng/ml
Methamphetamine	3.114	2688065	39483.48	42.1	1843.66	135872	922.6926 ng/ml
Metoprolol	4.246	986023	48828.19	95.6	∞	766034	928.2627 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.355	6663972	257240.87	48.5	2603.80	235715	1374.8643 ng/ml
Mitragynine	5.092	397463	26695.34	38.3	12305.07	152544	1165.1306 ng/ml
Morphine	1.166	392553	1216.02	24.7	958.30	4213	981.9916 ng/ml
Norbuprenorphine	4.910	8525	435.94	73.8	324.36	4088	101.8428 ng/ml
Nordiazepam	5.868	2568245	36249.83	57.7	1877.29	91248	951.4772 ng/ml
Norfentanyl	4.007	900881	102959.61	37.4	10166.60	462507	89.5504 ng/ml
Norhydrocodone	2.965	292912	164.30	43.1	1160.01	24457	1149.8272 ng/ml
Noroxycodone	2.796	2366901	9217.11	50.1	5684.99	80808	967.7070 ng/ml
O-desmethyl-tramadol	3.281	17922752	183350.34	5.9	34675.80	966417	1007.6725 ng/ml
Oxazepam	5.725	2015669	37246.39	71.6	7871.01	142434	903.7443 ng/ml
Oxycodone	2.707	7061891	20460.96	31.7	4881.51	363202	945.5379 ng/ml
Oxymorphone	1.317	2195506	4241.97	48.2	1816.45	87437	947.9614 ng/ml
Phentermine	3.684	1375944	∞	2.6	2145.90	212280	855.2461 ng/ml
Promethazine	5.481	2640289	205043.20	30.8	5072.95	118600	1008.4632 ng/ml
Quetiapine	5.396	4374915	56420.20	59.6	68830.10	56027	1032.5296 ng/ml
Sertraline	5.730	329530	1419.20	90.4	1507.75	13600	1031.5343 ng/ml
Temazepam	5.792	9013222	62064.28	27.7	41508.40	491181	1000.6588 ng/ml
Tramadol	4.159	13373294	∞	3.3	17520.67	766034	937.7155 ng/ml
Trazodone	4.721	6081747	70119.77	79.2	10908.99	250244	1020.0557 ng/ml
Venlafaxine	4.960	11503381	2025588.31	34.8	13901.81	576654	1015.6553 ng/ml
Zolpidem	4.521	17371296	381828.16	29.9	23368.04	926386	910.6511 ng/ml