

















REVIEWED

By Anne Nord at 12:14 pm, Oct 18, 2019

§ 10/18/2019

Worklist: 3764

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
M2019-4265	4	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2019-4386	3	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2019-4438	8	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-2558	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3018	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3021	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3026	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3039	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3048	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3053	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3054	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3056	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3057	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3058	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3059	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3083	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	

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

Extraction Date: 10/17/19 Analyst: Sarah Pickle
 Plate lot#: 190729 Item #: IDP-111 Plate Expiration: 01/29/20

Mobile phase A: 5mM Amm Form + 0.01% FA **Mobile phase B:** 0.01% Formic Acid in MeOH
 0.5M Ammonium Hydroxide Ethyl Acetate 20% Methanol in Water
Blank Blood Lot: 445283-3 **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 **250 µL blood (calibrated pipette) Pipette ID: #3** in wells of analytical (standards) plate.
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. *Shaker ID: 067105*
- 4. Pipette **250 µL 0.5M ammonium hydroxide** in wells of analytical plate.
- 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 6. Transfer **300 µL of blood+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 **900 µL ethyl acetate**.
- 10. Wait 5 minutes.
- 11. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left)*.
- 12. Add **900 µL 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 **100 µL 20% MeOH** and heat seal plate with foil. Place in autosampler and run worklist.

Post-Analytic

- 1. Create batch and process data.
 Worklist path: *D:\MassHunter\Data\2019\AM 28\101719 MDQ THCO SP* Batch Name: *MDQ*
- 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? Y / N _____ Add Control data to QC tracking spreadsheet.
- 6. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports.

COMMENTS: **Curve Range Limited:** 7-aminoclonazepam 5-500, amphetamine 5-500, buprenorphine 0.5-50, lamotrigine 5-250, lorazepam 5-500, metoprolol 5-500, norbuprenorphine 2.5-100, norhydrocodone 5-500, oxazepam 10-1000 (reported qualitatively)

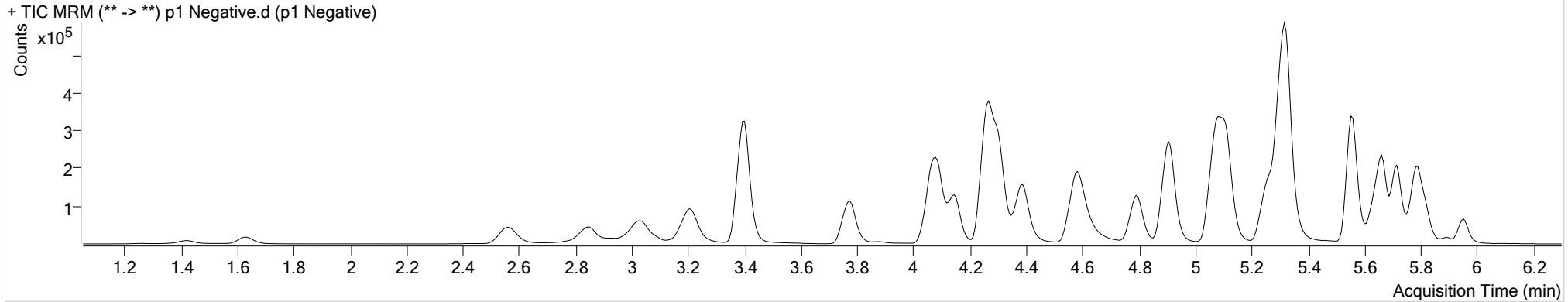
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Calibration Last Update 10/18/2019 9:51:56 AM

Instrument	Falco	Data File	p1 Negative.d
Type	Sample	Sample	p1 Negative
Acq. Method	MDQ P1 Combined 092319.m	Operator	
Sample Position	P2-E6	Comment	
Injection Volume	2		
Acq. Date-Time	10/17/2019 4:53:06 PM		
Sample Info.			

Sample Chromatogram



AM #28 Multi-Drug Quant. Results



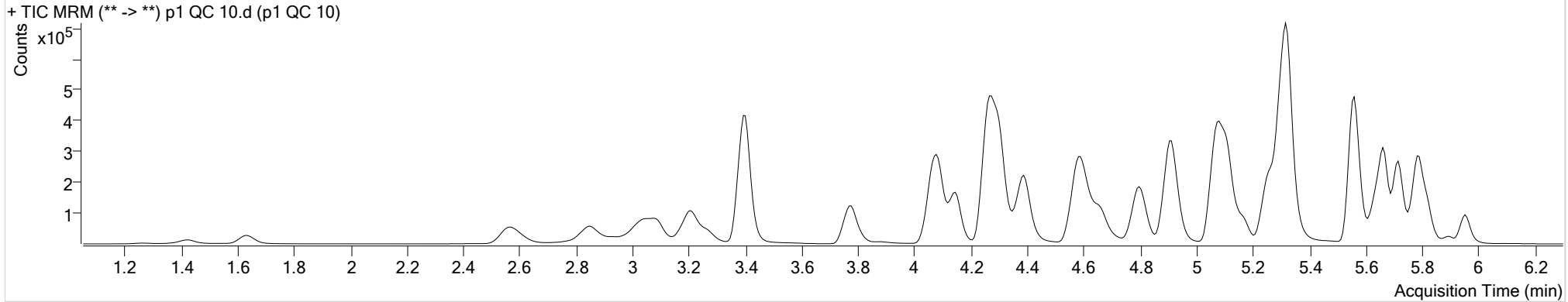
Batch results
Calibration Last Update

D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
10/18/2019 9:51:56 AM

Instrument Falco
Type QC
Acq. Method MDQ P1 Combined 092319.m
Sample Position P2-A6
Injection Volume 2
Acq. Date-Time 10/17/2019 3:07:44 PM
Sample Info.

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

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.163	1744	859.68	68.6	1341.04	30670	1.0095 ng/ml
7-aminoclonazepam	4.285	20862	9786.26	77.8	2348.40	77104	10.7275 ng/ml
a-hydroxyalprazolam	5.707	1266	92.36	81.4	199.77	7614	9.1066 ng/ml
alpha-PVP	4.398	119393	5642.12	49.5	977.86	530022	9.9461 ng/ml
Alprazolam	5.784	42781	429.92	106.9	730.54	98550	10.0160 ng/ml
Amphetamine	3.088	143970	2085.51	54.6	565.15	129141	10.3275 ng/ml
Benzoylcegonine	3.907	2403	733.34	8.5	17.80	10714	9.0046 ng/ml
Buprenorphine	5.835	5776	260.01	17.5	73.25	173820	0.9255 ng/ml
Bupropion	4.813	136499	2392.63	58.8	933.49	425995	9.9065 ng/ml
Carisoprodol	5.733	24688	2033.87	53.4	132.96	124018	9.6682 ng/ml
Citalopram	5.256	92423	4925.16	42.4	3164.30	422952	10.1098 ng/ml
Clonazepam	5.614	7271	173.80	32.1	790.82	13829	9.9509 ng/ml
Cocaine	4.298	108807	6526.61	45.5	∞	842640	9.8259 ng/ml
Codeine	2.617	11691	2151.32	104.0	211.76	47526	9.8150 ng/ml
Cyclobenzaprine	5.637	69514	398.90	10.2	586.82	249859	10.0600 ng/ml
Dextromethorphan	5.299	53638	5018.11	81.8	674.75	245279	9.8976 ng/ml
Dextrorphan	4.147	27470	16112.78	210.4	796.50	378939	10.3350 ng/ml
Diazepam	5.961	35273	1416.33	87.3	1129.87	166111	10.1967 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.595	30542	2264.43	66.3	961.52	166771	10.1030 ng/ml
Diphenhydramine	5.327	192464	640.28	32.1	6184.52	1574820	10.1153 ng/ml
Doxylamine	4.601	234609	1330.67	96.5	7072.80	943808	9.7537 ng/ml
EDDP	5.291	65598	1060.90	43.7	242.00	376668	9.8219 ng/ml
Fentanyl	5.120	6570	446.75	70.2	7374.39	354716	1.0225 ng/ml
Fluoxetine	5.716	90566	297.75	8.8	302.97	370472	10.4632 ng/ml
Hydrocodone	3.065	25438	28.98	39.8	30.24	171293	9.9744 ng/ml
Hydromorphone	1.641	19685	926.87	76.1	433.79	73502	9.6459 ng/ml
Ketamine	4.074	93159	5964.27	37.6	350.34	409278	10.1623 ng/ml
Lamotrigine	4.308	8490	∞	82.0	8413.78	409278	10.3736 ng/ml
Lorazepam	5.755	2605	82.28	58.4	5.12 Low	13829	9.9828 ng/ml
Meprobamate	4.929	5272	484.59	24.6	56.81	28655	10.2817 ng/ml
Methadone	5.668	111082	1159.47	53.3	16810.49	498305	10.0099 ng/ml
Methamphetamine	3.269	88732	978.25	42.2	216.18	396151	10.4997 ng/ml
Metoprolol	4.346	22252	11976.18	96.8	3505.97	1027388	10.2466 ng/ml
Mirtazapine	4.664	167613	7251.75	49.3	19727.04	530022	8.9832 ng/ml
Mitragynine	5.247	24257	2630.92	41.1	2086.12	498305	9.9296 ng/ml
Morphine	1.273	3706	465.53	21.1	4464.99	3645	10.3315 ng/ml
Norbuprenorphine	5.024	122	12.52	23.1 Low	5.11 Low	3956	1.2328 ng/ml outside curve range
Nordiazepam	5.901	9663	2585.31	56.2	∞	29563	10.2831 ng/ml
Norfentanyl	4.108	11900	8334.71	39.0	∞	574189	0.9604 ng/ml
Norhydrocodone	3.100	768	54.95	33.8	650.74	38937	9.9520 ng/ml
Noroxycodone	2.950	19470	490.12	48.3	16.56	52266	10.2505 ng/ml
O-desmethyl-tramadol	3.401	205310	6902.21	6.1	1240.14	1106428	10.1147 ng/ml
Oxazepam	5.758	2874	17.84	83.1	7.31 Low	19079	9.4685 ng/ml
Oxycodone	2.874	50450	828.91	31.2	1132.66	220958	10.1843 ng/ml
Oxymorphone	1.423	11376	239.44	48.1	95.80	38281	9.9038 ng/ml
Phentermine	3.812	36348	965.72	2.2	18.36	414985	10.5290 ng/ml
Promethazine	5.562	174224	13608.98	30.7	3134.32	791046	9.9598 ng/ml
Quetiapine	5.571	131947	23051.23	59.8	4848.97	160605	10.8468 ng/ml
Sertraline	5.791	61644	650.36	90.2	440.82	264793	10.0724 ng/ml
Temazepam	5.825	33221	579.74	34.5	64.13	182542	10.0461 ng/ml
Tramadol	4.273	213134	665.77	3.3	80.03	1027388	10.5043 ng/ml
Trazodone	5.167	124680	264.16	78.1	1244.18	491498	10.1854 ng/ml
Venlafaxine	5.074	152343	557.53	36.1	1106.23	862064	10.1914 ng/ml
Zolpidem	4.925	184439	511.68	31.6	930.82	890648	10.1413 ng/ml

AM #28 Multi-Drug Quant. Results



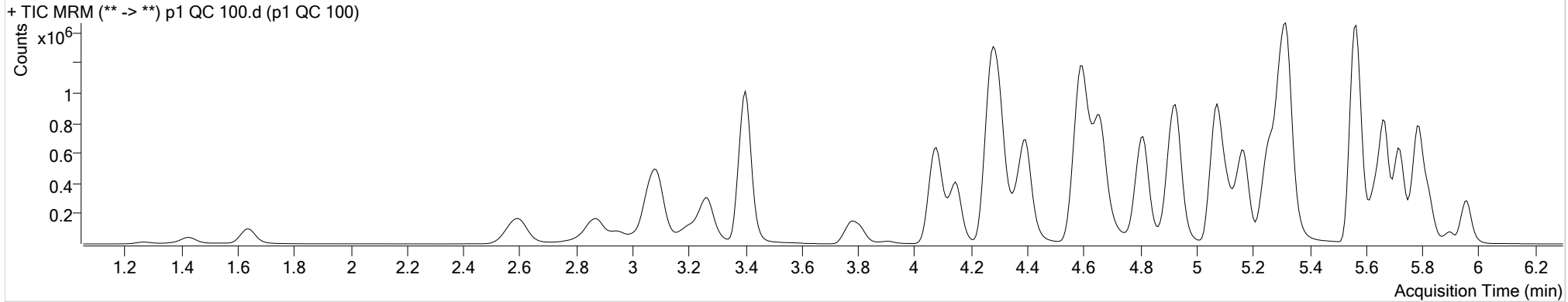
Batch results
Calibration Last Update

D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
10/18/2019 9:51:56 AM

Instrument Falco
Type QC
Acq. Method MDQ P1 Combined 092319.m
Sample Position P2-B6
Injection Volume 2
Acq. Date-Time 10/17/2019 3:28:46 PM
Sample Info.

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

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.170	15783	17771.83	71.1	16738.09	29335	9.7819 ng/ml
7-aminoclonazepam	4.285	162417	537935.02	81.5	8287.55	70391	99.8877 ng/ml
a-hydroxyalprazolam	5.700	12628	2217.64	71.9	318.21	7477	94.5959 ng/ml
alpha-PVP	4.398	1137629	2335.03	49.8	23956.57	514679	96.1069 ng/ml
Alprazolam	5.784	397471	2583.35	103.7	∞	90128	101.8295 ng/ml
Amphetamine	3.088	1236242	13532.19	52.1	∞	122863	103.9934 ng/ml
Benzoylcegonine	3.907	20689	19485.73	7.5	∞	11083	99.1409 ng/ml
Buprenorphine	5.835	50065	2730.81	16.6	567.46	140194	9.2302 ng/ml
Bupropion	4.813	1250355	310019.18	59.1	27186.89	399560	102.9625 ng/ml
Carisoprodol	5.733	221219	∞	52.7	379.50	108772	99.8119 ng/ml
Citalopram	5.249	777042	22687.87	42.0	958.30	365971	98.1996 ng/ml
Clonazepam	5.620	69670	7558.56	31.2	549.40	13730	102.1149 ng/ml
Cocaine	4.298	1011772	66735.76	44.8	39175.26	793997	96.3359 ng/ml
Codeine	2.617	105510	5096.86	102.3	13837.00	44231	110.6440 ng/ml
Cyclobenzaprine	5.637	547427	435.86	10.1	7285.53	202162	98.3681 ng/ml
Dextromethorphan	5.299	436596	26057.77	79.8	250.59	203796	98.8500 ng/ml
Dextrorphan	4.147	257156	646.43	212.3	99206.83	363926	101.2678 ng/ml
Diazepam	5.961	318428	5783.20	87.6	1057.64	155666	100.7887 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.588	294795	36648.78	65.9	10628.69	166264	105.3352 ng/ml
Diphenhydramine	5.327	1597556	138878.42	32.7	∞	1331969	98.1719 ng/ml
Doxylamine	4.594	2281236	111438.10	96.8	4727.45	932291	99.3334 ng/ml
EDDP	5.291	657869	32952.23	42.9	12488.30	383370	99.0930 ng/ml
Fentanyl	5.120	53979	335.37	70.6	592.73	299266	9.8186 ng/ml
Fluoxetine	5.716	716674	31401.09	8.5	379.96	305549	101.4686 ng/ml
Hydrocodone	3.058	253156	∞	39.6	∞	177872	102.2436 ng/ml
Hydromorphone	1.641	184759	∞	75.4	∞	69870	99.1036 ng/ml
Ketamine	4.074	885451	79718.99	38.6	1907.46	408103	102.3580 ng/ml
Lamotrigine	4.308	73882	3101.10	79.4	9837.62	408103	101.5867 ng/ml
Lorazepam	5.755	24719	482.51	54.7	317.22	13730	93.9686 ng/ml
Meprobamate	4.929	47285	3000.27	25.0	330.62	27206	103.2496 ng/ml
Methadone	5.668	939878	7161.91	52.1	1156.72	424670	97.1954 ng/ml
Methamphetamine	3.269	806494	7084.15	43.0	1336.04	389934	108.7535 ng/ml
Metoprolol	4.354	194205	68464.46	97.0	8852.50	1017160	102.1538 ng/ml
Mirtazapine	4.657	1514575	19310.35	49.9	4706.45	514679	85.4597 ng/ml
Mitragynine	5.254	200483	610645.47	38.8	118496.74	424670	101.8624 ng/ml
Morphine	1.266	32293	12717.29	21.3	649.10	3414	99.8107 ng/ml
Norbuprenorphine	5.030	869	∞	73.3	68.23	3737	10.8415 ng/ml
Nordiazepam	5.901	90196	7419.61	57.1	8462.46	28540	102.0246 ng/ml
Norfentanyl	4.108	120060	452.69	37.2	3278.55	575130	9.6240 ng/ml
Norhydrocodone	3.106	8800	263.46	36.6	1094.61	39531	94.2889 ng/ml
Noroxycodone	2.943	175718	1450.26	48.4	450.14	49659	101.6223 ng/ml
O-desmethyl-tramadol	3.401	1996021	50640.07	6.2	10769.96	1107936	100.4691 ng/ml
Oxazepam	5.758	28523	125.94	70.9	77.67	18537	105.1605 ng/ml
Oxycodone	2.874	490824	8150.94	31.2	24528.48	220553	102.5564 ng/ml
Oxymorphone	1.423	101873	∞	47.9	969.75	37211	97.4901 ng/ml
Phentermine	3.812	306653	∞	2.1	827.17	389041	106.2412 ng/ml
Promethazine	5.562	1384791	59839.47	30.7	996.08	636253	97.3738 ng/ml
Quetiapine	5.571	1137938	147534.73	59.4	19650.24	146622	109.7648 ng/ml
Sertraline	5.791	427342	∞	92.2	15114.87	192089	95.6914 ng/ml
Temazepam	5.825	309160	1146.43	31.9	578.73	173697	97.8581 ng/ml
Tramadol	4.274	1947124	39804.86	3.4	∞	1017160	105.8155 ng/ml
Trazodone	5.167	1091707	516.63	79.6	331709.41	451403	100.6988 ng/ml
Venlafaxine	5.074	1437932	4628.65	36.3	1582.48	833632	97.1903 ng/ml
Zolpidem	4.925	1786288	324684.93	31.7	22499.10	889329	102.6095 ng/ml

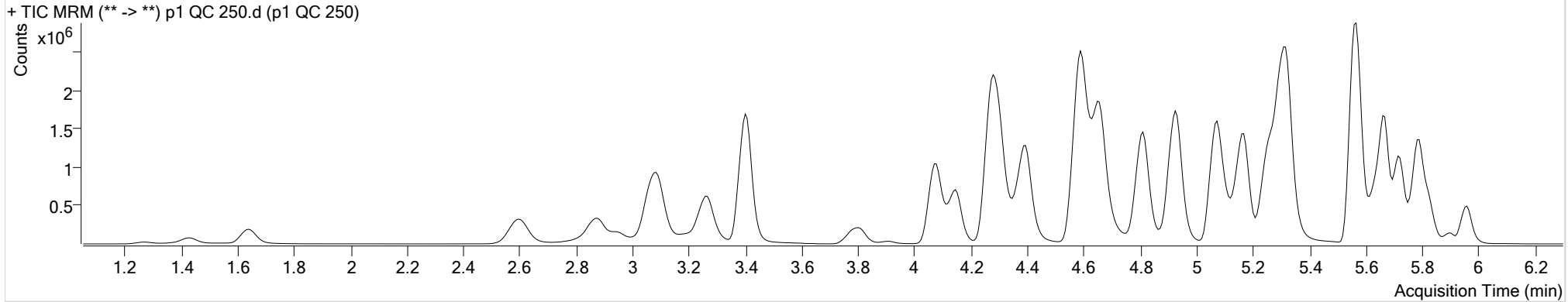
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Calibration Last Update 10/18/2019 9:51:56 AM

Instrument Falco **Data File** p1 QC 250.d
Type QC **Sample** p1 QC 250
Acq. Method MDQ P1 Combined 092319.m **Operator**
Sample Position P2-C6 **Comment**
Injection Volume 2
Acq. Date-Time 10/17/2019 3:49:57 PM
Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.163	34612	76250.97	71.7	140938.91	24617	25.6066 ng/ml
7-aminoclonazepam	4.285	280855	∞	81.7	16911.25	52577	232.7223 ng/ml
a-hydroxyalprazolam	5.700	27202	648.47	71.3	3496.52	5985	254.9534 ng/ml
alpha-PVP	4.398	2469344	2212.22	49.6	41199.40	441000	243.2039 ng/ml
Alprazolam	5.784	784364	1011.87	103.2	6823.60	71288	254.0682 ng/ml
Amphetamine	3.088	2400158	13151.88	52.5	54460.46	103524	241.3713 ng/ml
Benzoylcegonine	3.907	47334	312.80	7.7	234.45	9884	259.5184 ng/ml
Buprenorphine	5.835	116812	12188.13	15.9	∞	117361	25.5944 ng/ml
Bupropion	4.813	2806845	220469.14	58.7	52477.67	358745	258.4934 ng/ml
Carisoprodol	5.733	403457	739.49	53.6	2306.84	78973	250.8926 ng/ml
Citalopram	5.249	1712988	277.75	42.7	741.41	323093	245.2047 ng/ml
Clonazepam	5.614	143079	2712.33	31.8	∞	10786	268.0839 ng/ml
Cocaine	4.297	2114096	386060.06	44.5	132472.39	648958	246.1713 ng/ml
Codeine	2.617	208669	30413.20	104.6	∞	36538	267.3757 ng/ml
Cyclobenzaprine	5.637	1287915	708.97	10.1	1721.92	186236	251.2985 ng/ml
Dextromethorphan	5.299	999278	85710.81	80.3	32092.69	186347	247.7558 ng/ml
Dextrorphan	4.147	563381	28188.69	212.7	2005.42	314170	257.0882 ng/ml
Diazepam	5.961	641801	5065.21	87.9	∞	126312	250.7908 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.595	609395	59993.39	65.5	437.18	142561	255.1742 ng/ml
Diphenhydramine	5.327	3571359	111515.35	32.7	55141.90	1176521	248.2707 ng/ml
Doxylamine	4.588	5133052	9912.32	97.9	46944.00	839735	248.7103 ng/ml
EDDP	5.291	1562796	39885.44	43.2	370.35	358850	251.8865 ng/ml
Fentanyl	5.120	144030	17669.27	70.7	155696.16	304270	25.7422 ng/ml
Fluoxetine	5.716	1640306	39805.56	8.7	13053.98	278749	254.7555 ng/ml
Hydrocodone	3.058	527045	144.03	40.4	∞	155766	244.1354 ng/ml
Hydromorphone	1.641	405134	1674.04	75.6	2038.78	60731	250.6798 ng/ml
Ketamine	4.074	1920321	530971.05	38.6	46076.98	356964	254.7430 ng/ml
Lamotrigine	4.308	135912	15331.53	79.4	53352.64	356964	215.2244 ng/ml
Lorazepam	5.755	54306	1186.84	55.4	212.35	10786	262.4878 ng/ml
Meprobamate	4.929	95241	825.27	25.9	578.34	22055	257.6142 ng/ml
Methadone	5.668	2298437	296167.71	51.1	37876.01	405236	248.7040 ng/ml
Methamphetamine	3.262	1725172	37686.70	43.2	17219.11	346532	263.7875 ng/ml
Metoprolol	4.354	380707	1188518.76	97.5	14594.67	874086	234.9742 ng/ml
Mirtazapine	4.657	3506967	203530.27	49.9	208491.98	441000	231.3228 ng/ml
Mitragynine	5.247	480970	153284.40	39.5	20028.85	405236	257.0618 ng/ml
Morphine	1.273	70593	2074.67	20.6	197.99	2997	249.2406 ng/ml
Norbuprenorphine	5.024	2190	76.10	74.2	97.53	3753	27.5836 ng/ml
Nordiazepam	5.901	184979	5363.77	57.7	3538.20	23315	256.5789 ng/ml
Norfentanyl	4.108	258873	744.47	37.3	1677.06	481207	24.7927 ng/ml
Norhydrocodone	3.106	18722	481.50	37.0	225.46	33294	235.4999 ng/ml
Noroxycodone	2.943	361334	564.01	48.1	1362.01	41657	249.8396 ng/ml
O-desmethyl-tramadol	3.401	4326233	110579.37	6.2	130001.31	947654	254.9901 ng/ml
Oxazepam	5.758	60824	892.60	74.1	360.66	16343	255.6507 ng/ml
Oxycodone	2.874	1115215	8133.06	30.7	3263.39	196087	262.6817 ng/ml
Oxymorphone	1.430	217149	684.54	48.1	∞	30257	256.7996 ng/ml
Phentermine	3.812	621296	∞	2.0	902.83	334644	252.1872 ng/ml
Promethazine	5.562	3425362	∞	30.0	2304.66	616619	248.3453 ng/ml
Quetiapine	5.571	2394007	303093.63	59.6	4559.64	128427	264.8520 ng/ml
Sertraline	5.791	908604	1704.07	92.5	49561.85	162457	240.4664 ng/ml
Temazepam	5.825	656803	∞	30.7	1018.24	142806	252.7973 ng/ml
Tramadol	4.273	4018383	116356.20	3.5	∞	874086	255.6359 ng/ml
Trazodone	5.167	2633397	127519.18	79.1	237234.34	439510	250.0994 ng/ml
Venlafaxine	5.074	3158067	133294.81	36.6	28975.52	729703	243.4628 ng/ml
Zolpidem	4.925	3895380	142441.96	31.1	70024.97	773617	257.9658 ng/ml

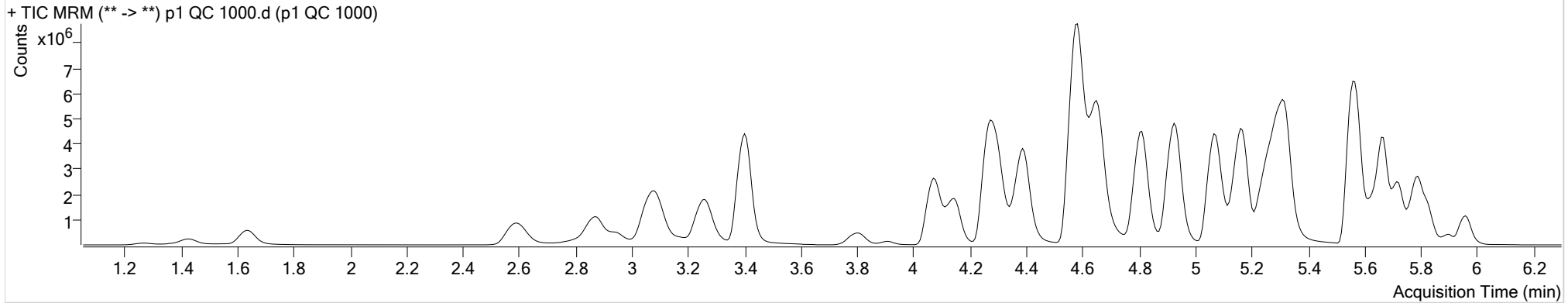
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Calibration Last Update 10/18/2019 9:51:56 AM

Instrument Falco **Data File** p1 QC 1000.d
Type QC **Sample** p1 QC 1000
Acq. Method MDQ P1 Combined 092319.m **Operator**
Sample Position P2-D6 **Comment**
Injection Volume 2
Acq. Date-Time 10/17/2019 4:10:59 PM
Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.163	122453	576637.14	71.3	155634.45	21014	106.2106 ng/ml
7-aminoclonazepam	4.278	426447	28987.60	82.4	38158.22	27785	670.7539 ng/ml outside curve range
a-hydroxyalprazolam	5.700	95905	471.71	72.1	∞	5209	1033.5152 ng/ml
alpha-PVP	4.391	8356393	166066.85	49.7	90967.44	361608	1003.1846 ng/ml
Alprazolam	5.784	1999390	3798.36	103.3	3102.73	46343	996.2596 ng/ml
Amphetamine	3.088	5758232	31304.94	52.3	144341.61	89132	674.9765 ng/ml outside curve range
Benzoylcegonine	3.907	210382	32140.74	7.7	2213.99	10590	1086.9043 ng/ml
Buprenorphine	5.842	324659	91459.99	16.2	∞	61995	134.3522 ng/ml outside curve range
Bupropion	4.813	9649541	590654.53	58.2	234924.40	318119	1004.1939 ng/ml
Carisoprodol	5.733	818820	∞	53.7	23867.73	38750	1038.0772 ng/ml
Citalopram	5.243	4315427	1568907.07	41.8	953068.46	209988	950.4468 ng/ml
Clonazepam	5.614	379416	2301.86	32.2	2745.04	8486	905.1955 ng/ml
Cocaine	4.298	5920383	265281.51	44.1	666624.15	451630	990.3818 ng/ml
Codeine	2.617	607311	28533.39	103.4	259.70	28271	1010.6056 ng/ml
Cyclobenzaprine	5.631	3372952	2031.42	10.2	20026.99	120750	1015.2167 ng/ml
Dextromethorphan	5.299	2391618	62441.27	79.7	226039.65	111162	994.6666 ng/ml
Dextrorphan	4.147	1797274	78765.32	212.4	56024.43	250947	1026.9602 ng/ml
Diazepam	5.961	1764005	18543.41	88.2	2545.66	89228	976.6455 ng/ml

AM #28 Multi-Drug Quant. Results



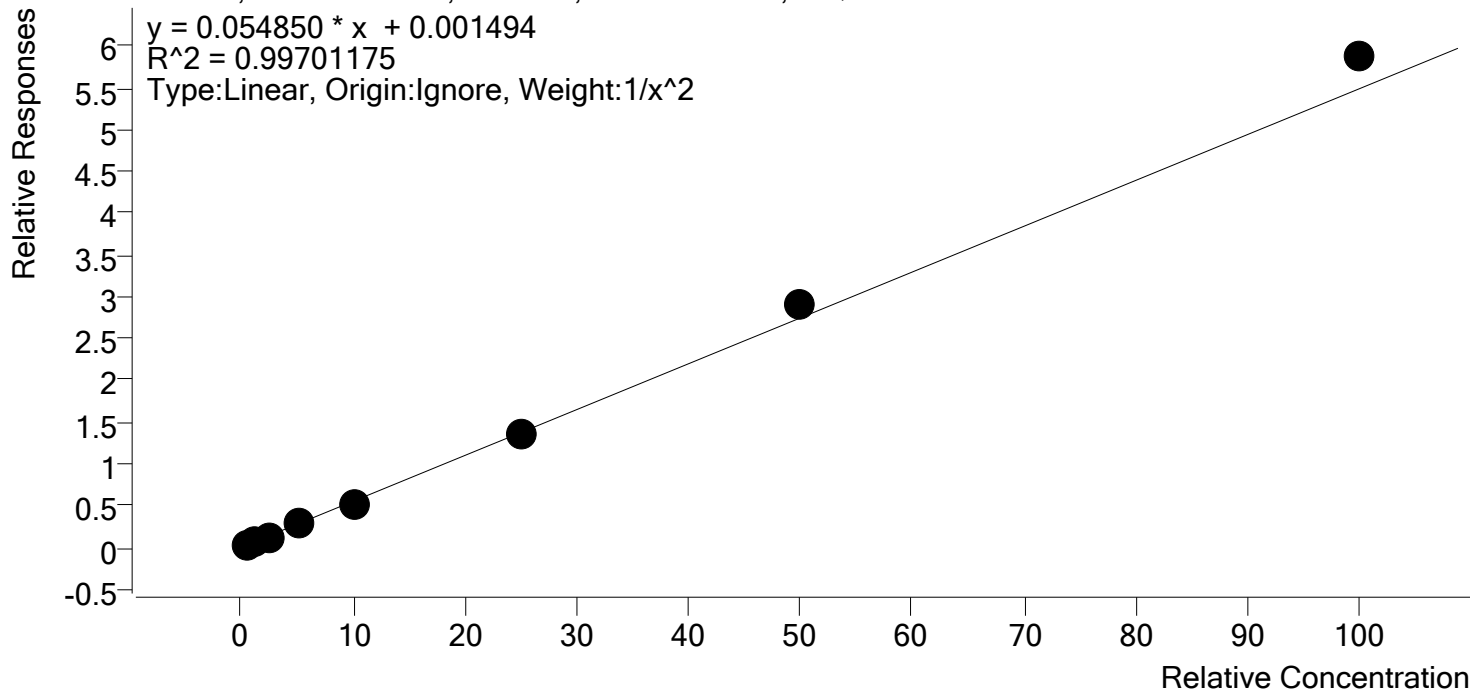
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.	
Dihydrocodeine	2.581	1903188	55469.60	65.8	57582.71	131094	868.7136	ng/ml
Diphenhydramine	5.327	9358007	357736.11	32.7	17105.70	751463	1018.1281	ng/ml
Doxylamine	4.581	19093052	424367.45	96.6	7969.54	786964	988.2608	ng/ml
EDDP	5.284	6003037	144661.60	43.1	274872.28	340431	1020.6953	ng/ml
Fentanyl	5.120	504853	11191.49	72.3	126662.72	256464	107.0008	ng/ml
Fluoxetine	5.716	4157877	128993.31	8.7	25747.49	177855	1012.4599	ng/ml
Hydrocodone	3.052	1846576	247.18	41.0	252.15	139928	954.4300	ng/ml
Hydromorphone	1.641	1319300	∞	76.1	∞	52420	946.9531	ng/ml
Ketamine	4.074	6126366	17176.33	38.4	5290.87	309296	939.6791	ng/ml
Lamotrigine	4.315	229174	19512.23	80.5	∞	309296	420.1943	ng/ml outside curve range
Lorazepam	5.748	208895	28819.74	53.5	728.24	8486	1282.6400	ng/ml outside curve range
Meprobamate	4.929	231712	41298.37	25.5	13847.17	16476	840.6372	ng/ml
Methadone	5.668	6919915	312910.77	51.3	2110.86	309906	978.3843	ng/ml
Methamphetamine	3.262	5491631	70607.31	43.5	23918.45	351681	830.4654	ng/ml
Metoprolol	4.346	913649	1279561.00	97.6	∞	665476	743.9356	ng/ml outside curve range
Mirtazapine	4.657	11895644	∞	49.5	383898.99	361608	957.6263	ng/ml
Mitragynine	5.247	1381895	59978.10	40.5	32128.88	309906	967.5310	ng/ml
Morphine	1.266	221013	295.91	20.9	2387.23	2451	955.6012	ng/ml
Norbuprenorphine	5.024	8167	259.53	73.5	799.54	3878	100.1699	ng/ml
Nordiazepam	5.901	583184	9434.11	57.1	19672.59	18806	1003.7250	ng/ml
Norfentanyl	4.108	813079	79816.99	37.3	4964.50	347887	107.6935	ng/ml
Norhydrocodone	3.100	67733	451.45	37.9	877.01	24027	1173.5548	ng/ml outside curve range
Noroxycodone	2.943	1180136	66611.67	47.6	326.91	34703	980.9557	ng/ml
O-desmethyl-tramadol	3.401	14252534	310024.48	6.1	38033.37	768686	1036.4325	ng/ml
Oxazepam	5.751	249402	411.72	71.7	1455.58	16787	1023.2860	ng/ml
Oxycodone	2.868	4195035	22915.69	31.0	14005.46	193231	1003.7758	ng/ml
Oxymorphone	1.423	732950	4203.38	46.8	434.13	28677	916.4760	ng/ml
Phentermine	3.805	1750490	2535.21	1.9	∞	291813	818.0242	ng/ml
Promethazine	5.556	9705067	426254.72	29.9	71845.12	441009	983.4742	ng/ml
Quetiapine	5.571	6064886	1051243.47	59.7	89639.56	98925	873.0414	ng/ml
Sertraline	5.798	1828566	34241.07	90.9	51852.14	81982	958.7857	ng/ml
Temazepam	5.825	2117602	25598.70	30.3	2176.46	110561	1052.6101	ng/ml
Tramadol	4.267	11483819	∞	3.4	∞	665476	962.5482	ng/ml
Trazodone	5.160	9043310	437844.34	78.7	446177.70	393491	960.4990	ng/ml
Venlafaxine	5.067	10859092	9564.73	35.5	16831.15	606615	1006.2003	ng/ml
Zolpidem	4.925	12660365	510597.70	30.7	183359.67	685071	948.0827	ng/ml



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
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



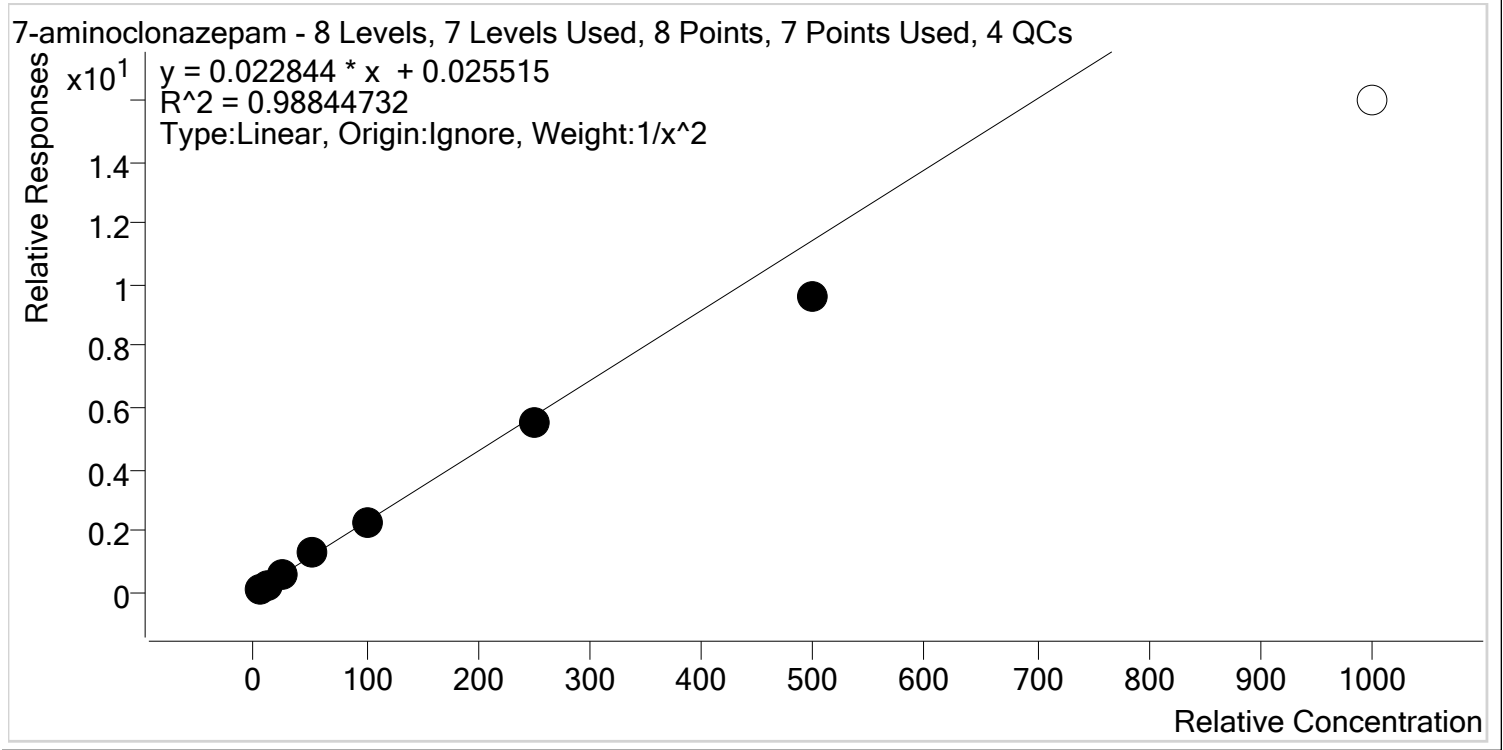
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	103.2
p1 Cal 2- 10ng	2	✓	1.0	1.0	96.5
p1 Cal 3 -25ng	3	✓	2.5	2.4	94.6
p1 Cal 4-50ng	4	✓	5.0	4.9	97.4
p1 Cal 5-100ng	5	✓	10.0	9.6	96.0
p1 Cal 6-250ng	6	✓	25.0	24.9	99.5
p1 Cal 7-500ng	7	✓	50.0	52.9	105.8
p1 Cal 8-1000ng	8	✓	100.0	107.0	107.0

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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte 7-aminoclonazepam **Internal Standard** 7-Aminoclonazepam-D4

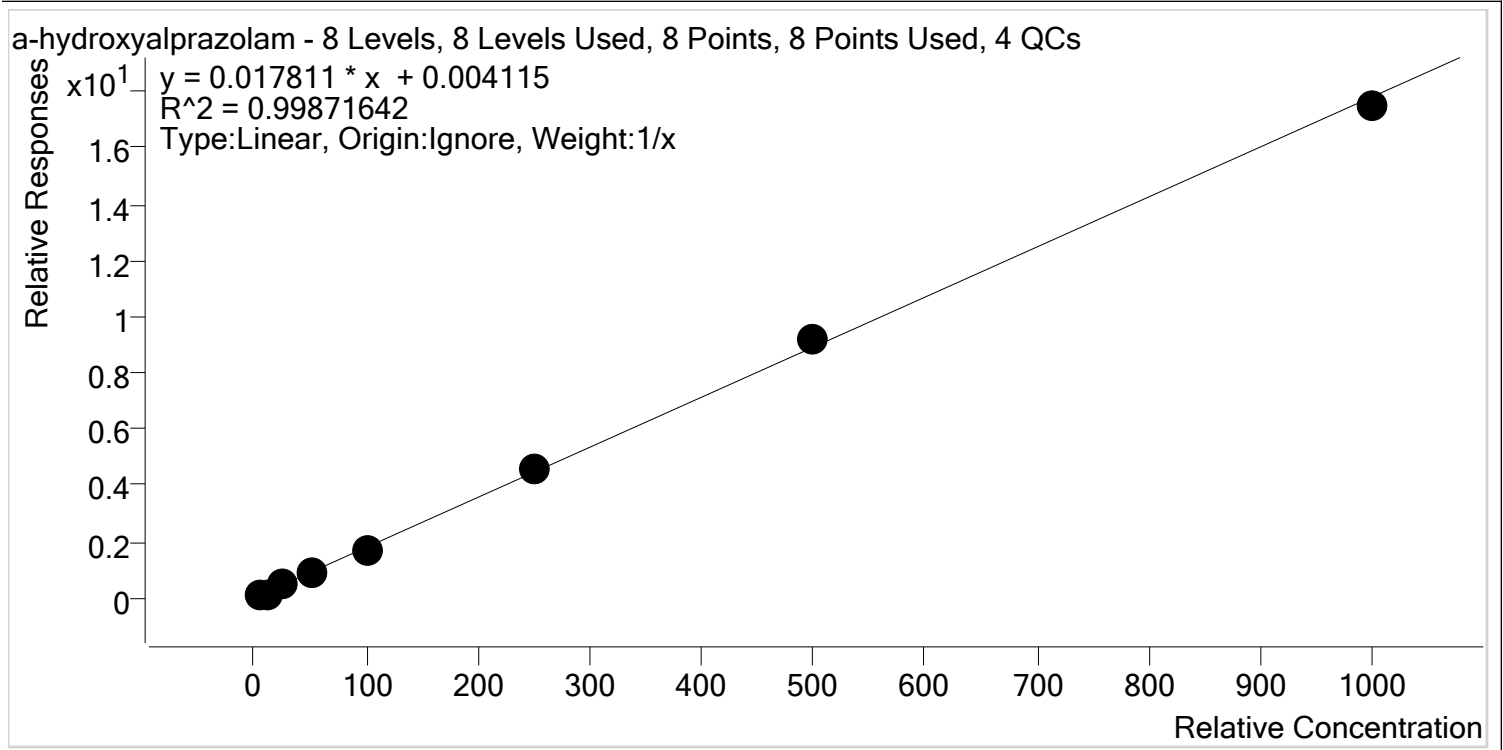


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.5
p1 Cal 2- 10ng	2	✓	10.0	10.3	103.3
p1 Cal 3 -25ng	3	✓	25.0	27.5	110.0
p1 Cal 4-50ng	4	✓	50.0	55.1	110.2
p1 Cal 5-100ng	5	✓	100.0	101.2	101.2
p1 Cal 6-250ng	6	✓	250.0	239.0	95.6
p1 Cal 7-500ng	7	✓	500.0	421.4	84.3
p1 Cal 8-1000ng	8	✗	1000.0	697.8	69.8



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte a-hydroxyalprazolam **Internal Standard** a-hydroxyalprazolam-D5

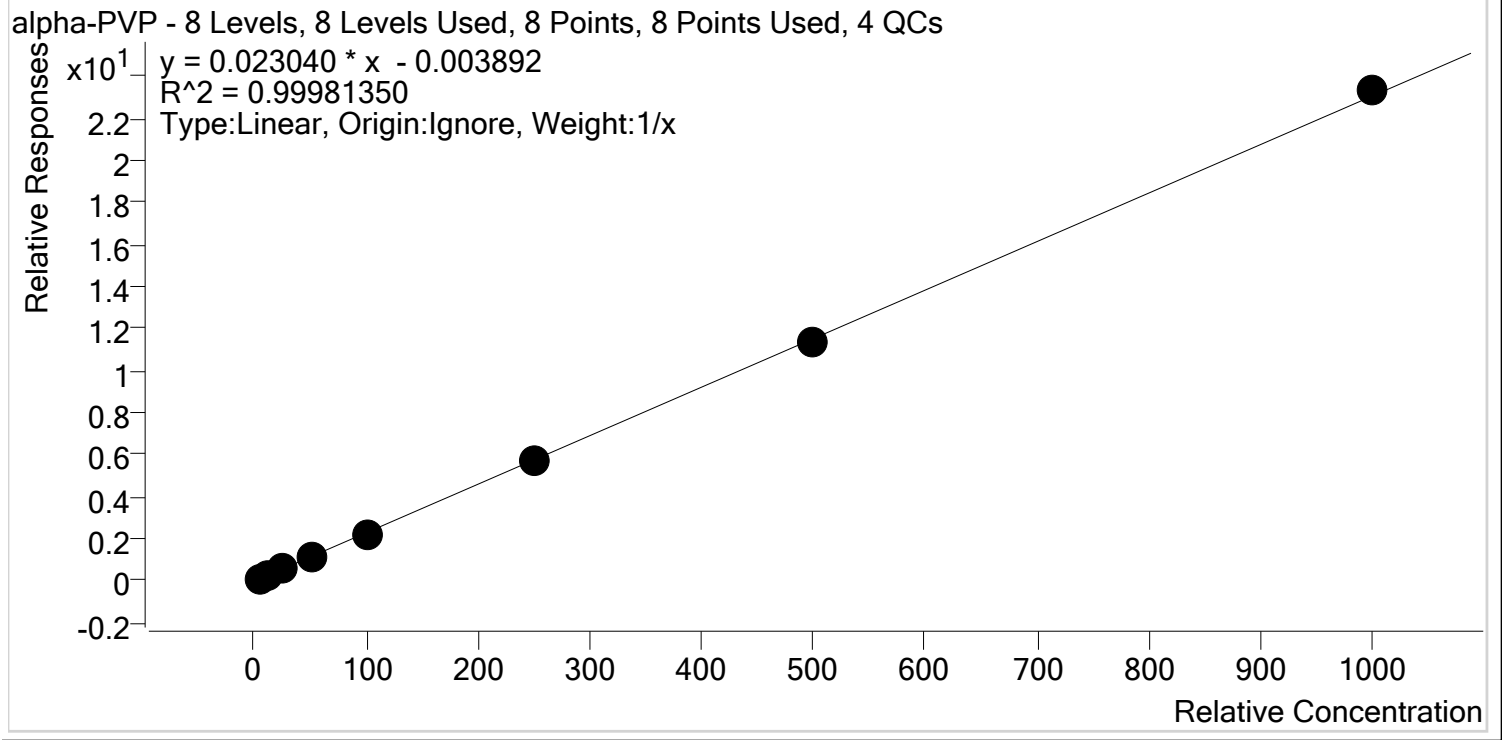


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	6.1	122.5
p1 Cal 2- 10ng	2	✓	10.0	8.0	79.7
p1 Cal 3 -25ng	3	✓	25.0	23.9	95.8
p1 Cal 4-50ng	4	✓	50.0	51.6	103.3
p1 Cal 5-100ng	5	✓	100.0	94.3	94.3
p1 Cal 6-250ng	6	✓	250.0	256.8	102.7
p1 Cal 7-500ng	7	✓	500.0	518.0	103.6
p1 Cal 8-1000ng	8	✓	1000.0	981.2	98.1



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte alpha-PVP **Internal Standard** alpha-PVP-d8



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.2	104.3
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.0
p1 Cal 3 -25ng	3	✓	25.0	24.7	98.9
p1 Cal 4-50ng	4	✓	50.0	50.0	100.1
p1 Cal 5-100ng	5	✓	100.0	97.0	97.0
p1 Cal 6-250ng	6	✓	250.0	246.3	98.5
p1 Cal 7-500ng	7	✓	500.0	495.2	99.0
p1 Cal 8-1000ng	8	✓	1000.0	1011.4	101.1

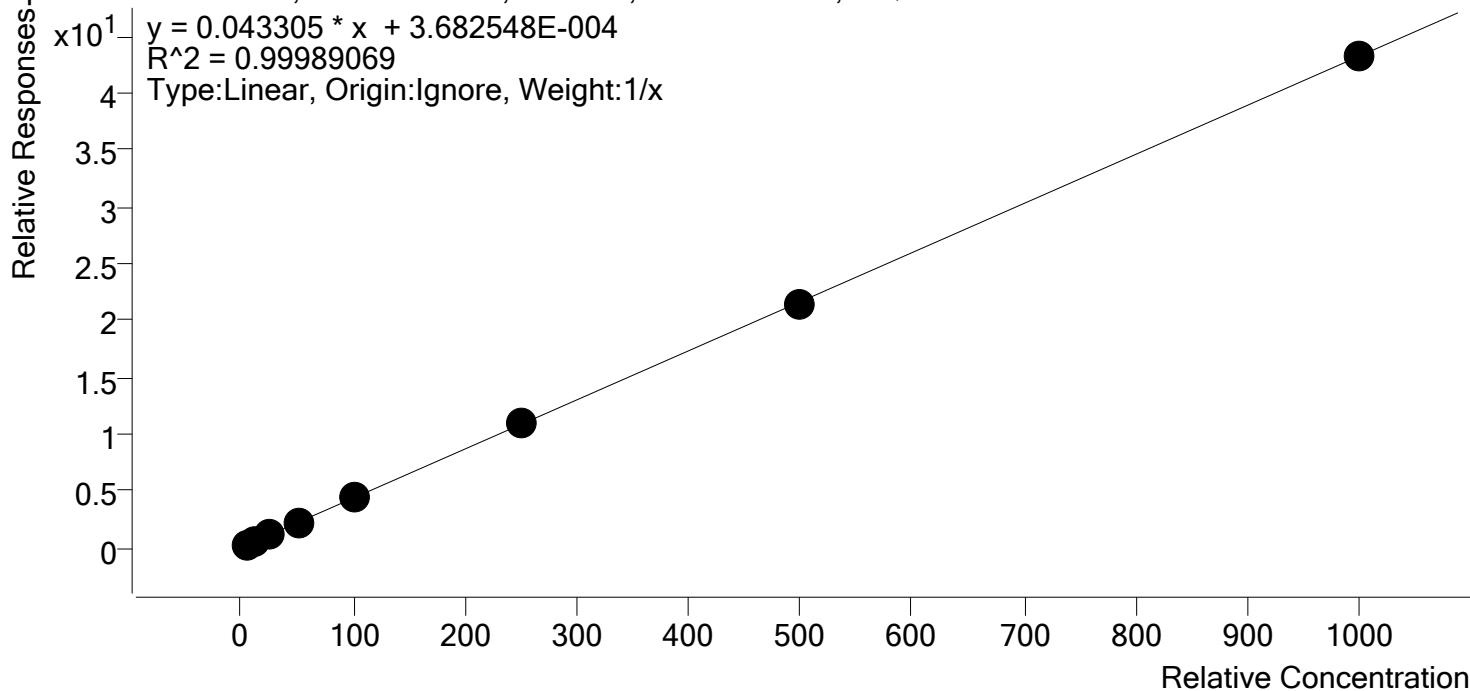
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte Alprazolam **Internal Standard** Alprazolam-D5

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

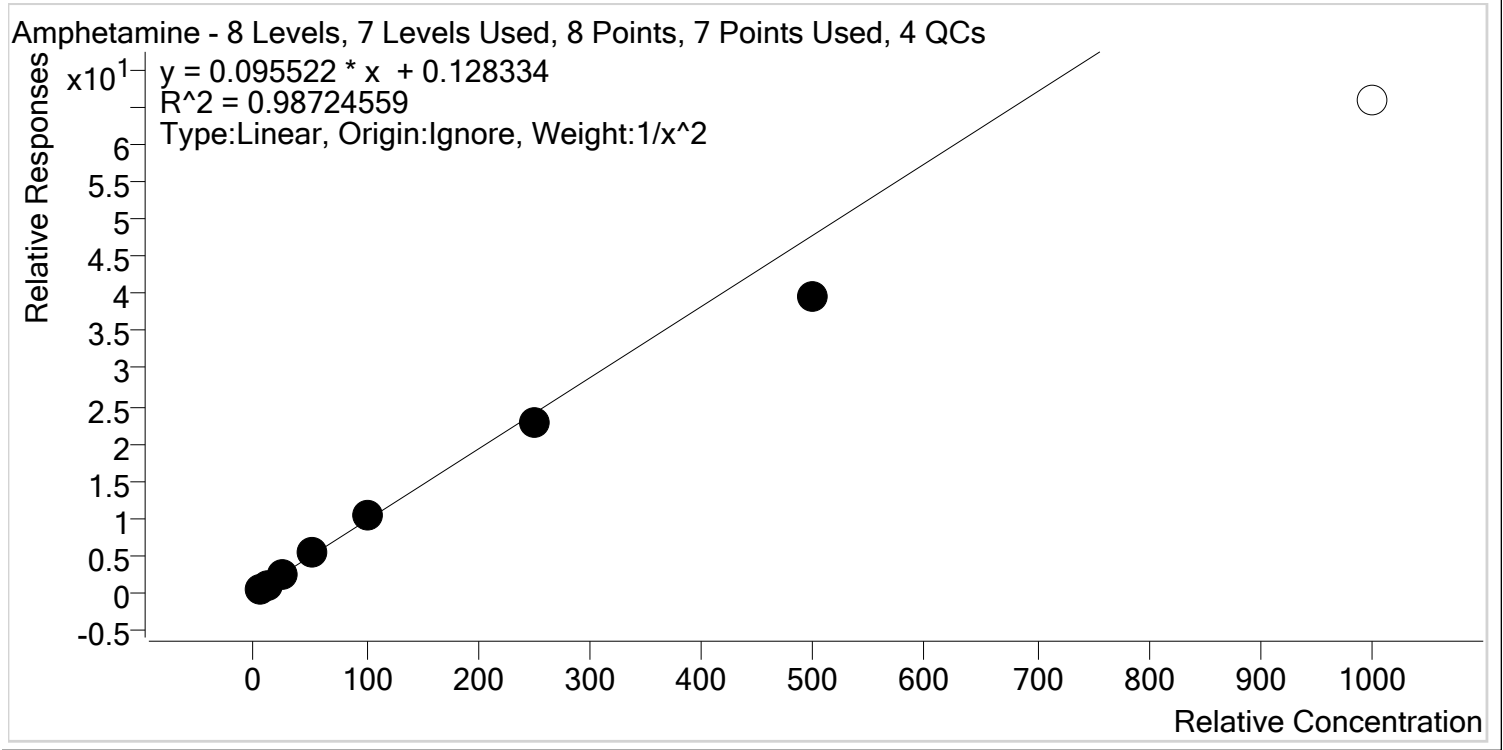


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	102.3
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.5
p1 Cal 3 -25ng	3	✓	25.0	24.3	97.2
p1 Cal 4-50ng	4	✓	50.0	49.9	99.8
p1 Cal 5-100ng	5	✓	100.0	98.5	98.5
p1 Cal 6-250ng	6	✓	250.0	255.7	102.3
p1 Cal 7-500ng	7	✓	500.0	497.2	99.4
p1 Cal 8-1000ng	8	✓	1000.0	999.2	99.9



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte Amphetamine **Internal Standard** Amphetamine-D11

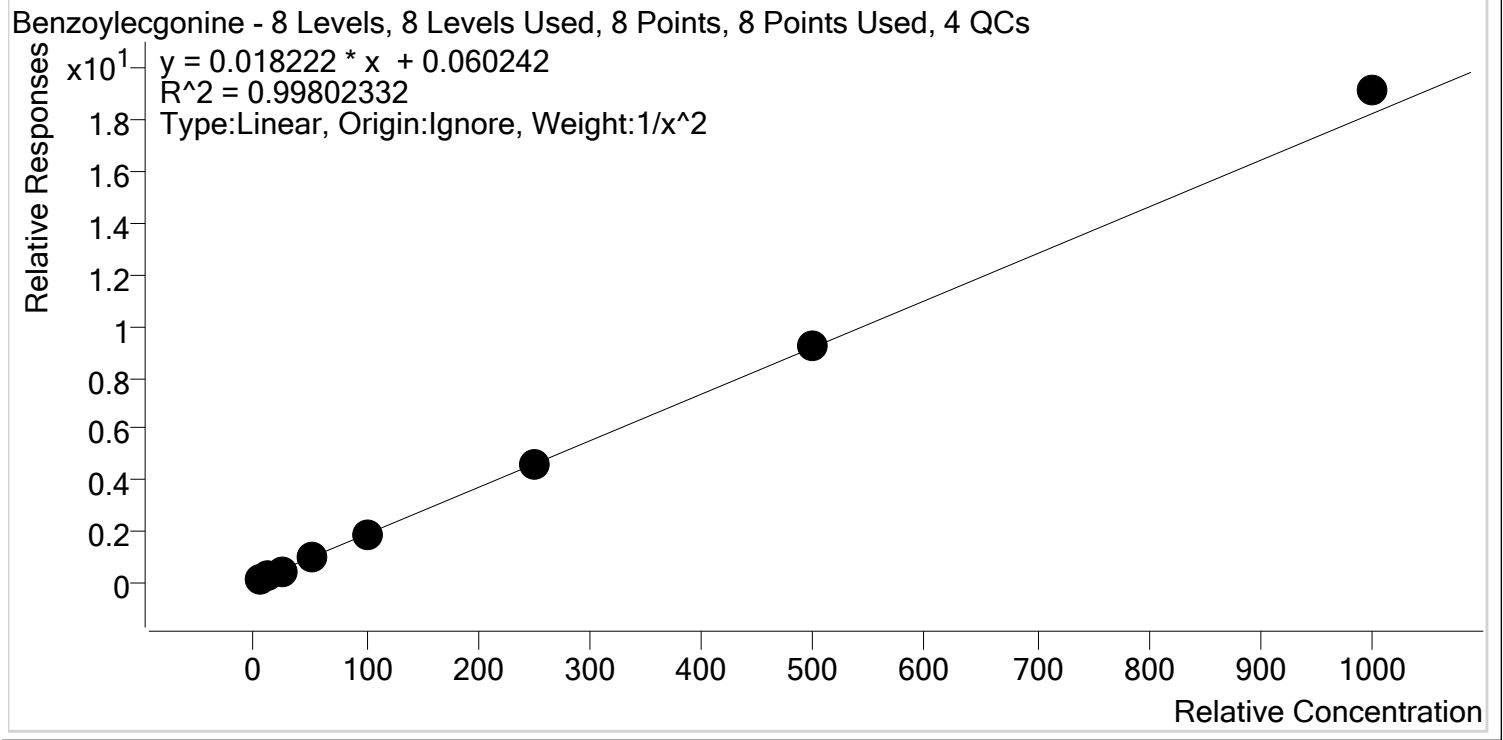


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.4
p1 Cal 2- 10ng	2	✓	10.0	10.4	104.0
p1 Cal 3 -25ng	3	✓	25.0	27.1	108.6
p1 Cal 4-50ng	4	✓	50.0	54.1	108.3
p1 Cal 5-100ng	5	✓	100.0	106.5	106.5
p1 Cal 6-250ng	6	✓	250.0	237.1	94.8
p1 Cal 7-500ng	7	✓	500.0	412.4	82.5
p1 Cal 8-1000ng	8	✗	1000.0	688.1	68.8



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte Benzoylecgonine **Internal Standard** Benzoylecgonine-d8

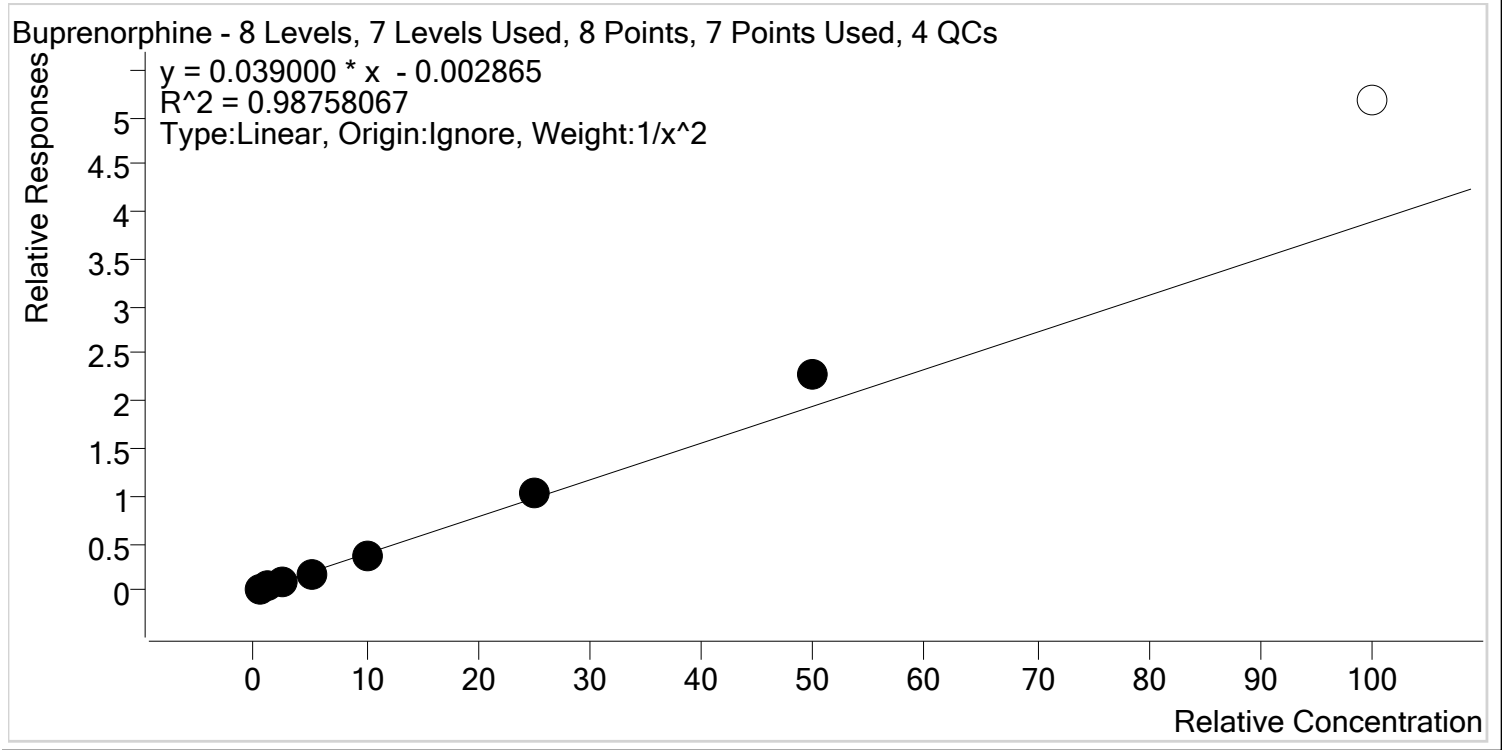


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.5
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.2
p1 Cal 3 -25ng	3	✓	25.0	22.8	91.4
p1 Cal 4-50ng	4	✓	50.0	50.8	101.5
p1 Cal 5-100ng	5	✓	100.0	99.3	99.3
p1 Cal 6-250ng	6	✓	250.0	251.4	100.6
p1 Cal 7-500ng	7	✓	500.0	503.1	100.6
p1 Cal 8-1000ng	8	✓	1000.0	1049.3	104.9



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte Buprenorphine **Internal Standard** Buprenorphine-D4

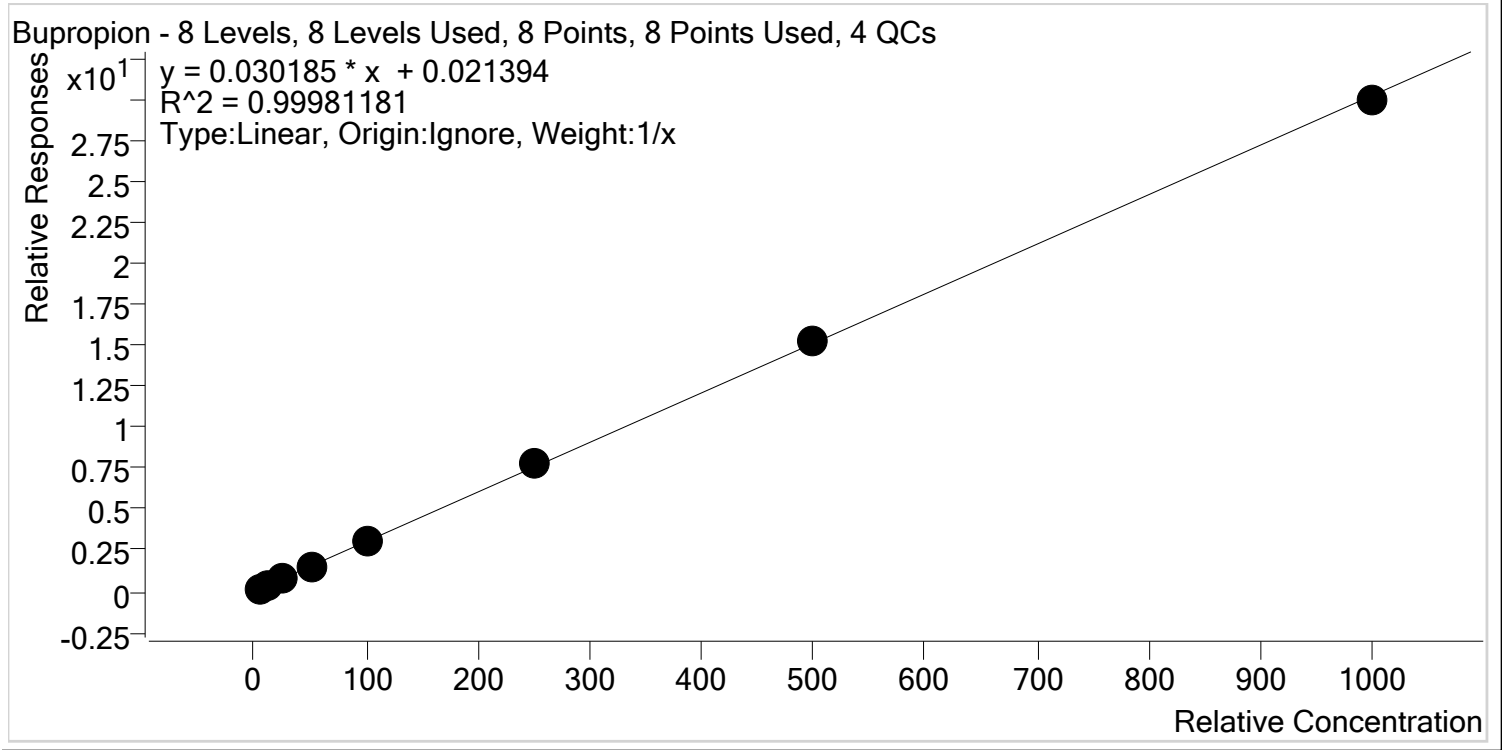


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	103.9
p1 Cal 2- 10ng	2	✓	1.0	1.0	97.8
p1 Cal 3 -25ng	3	✓	2.5	2.2	89.6
p1 Cal 4-50ng	4	✓	5.0	4.7	93.6
p1 Cal 5-100ng	5	✓	10.0	9.3	93.0
p1 Cal 6-250ng	6	✓	25.0	26.2	104.9
p1 Cal 7-500ng	7	✓	50.0	58.6	117.2
p1 Cal 8-1000ng	8	✗	100.0	132.8	132.8



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte Bupropion **Internal Standard** Bupropion-D9

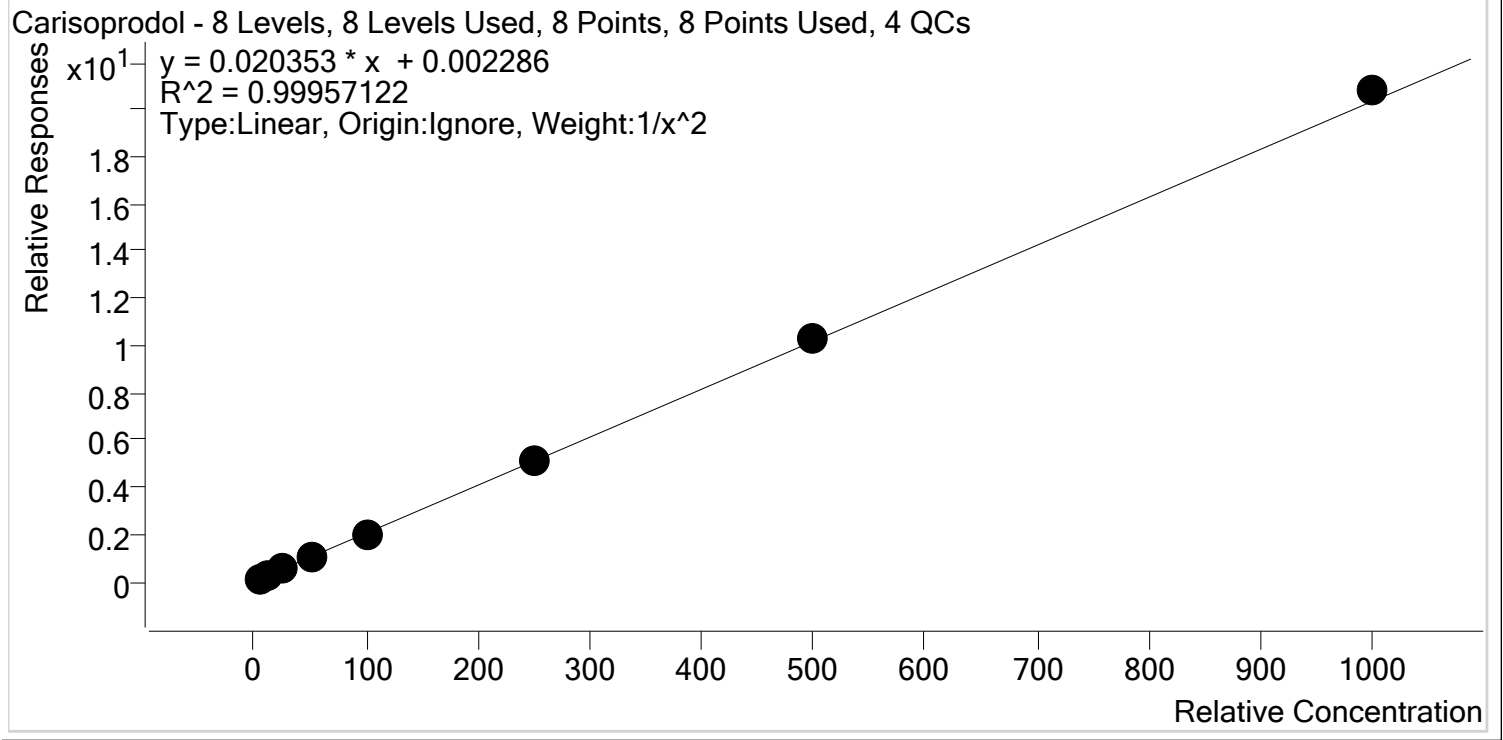


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.1
p1 Cal 2- 10ng	2	✓	10.0	9.7	97.3
p1 Cal 3 -25ng	3	✓	25.0	25.4	101.6
p1 Cal 4-50ng	4	✓	50.0	51.7	103.5
p1 Cal 5-100ng	5	✓	100.0	100.9	100.9
p1 Cal 6-250ng	6	✓	250.0	255.7	102.3
p1 Cal 7-500ng	7	✓	500.0	501.8	100.4
p1 Cal 8-1000ng	8	✓	1000.0	989.9	99.0



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte Carisoprodol **Internal Standard** Carisoprodol-D7

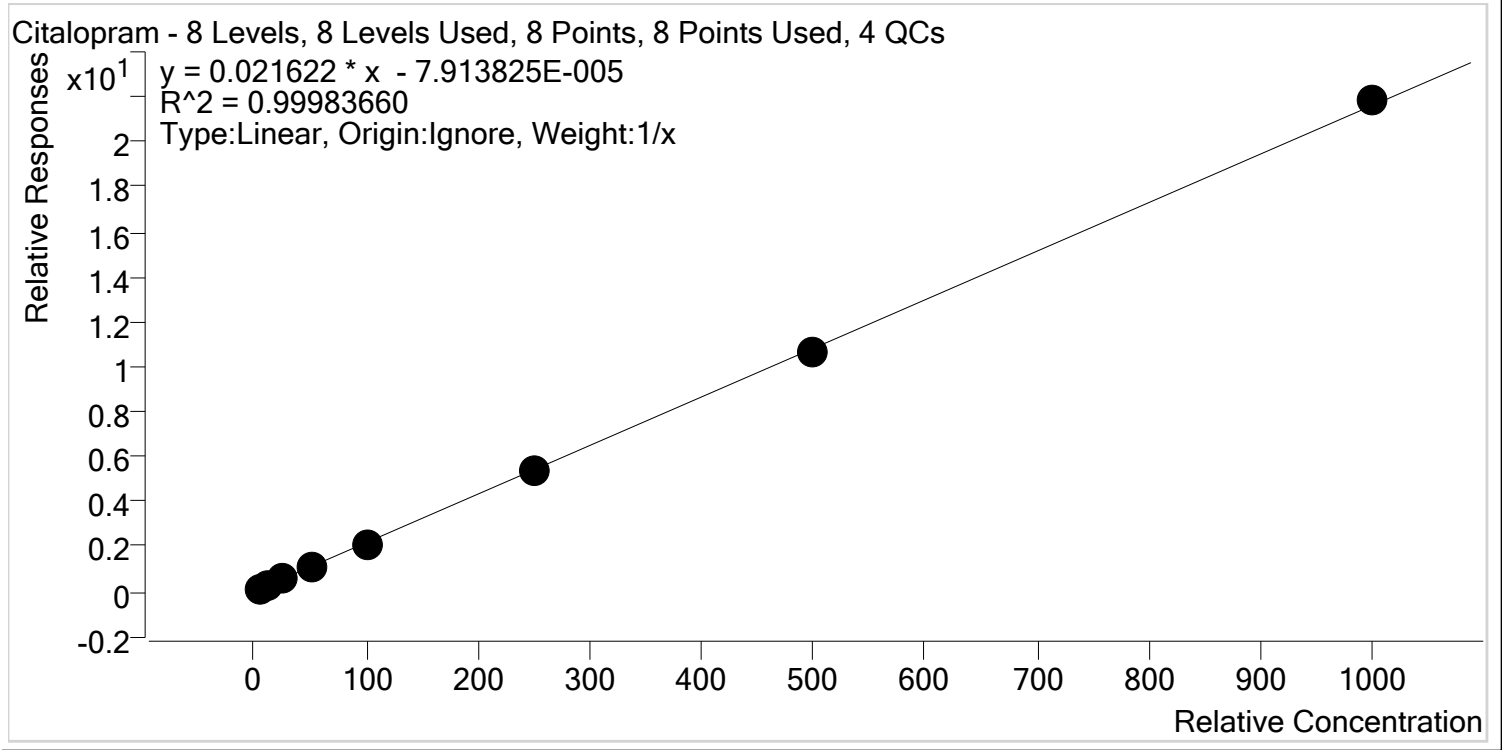


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.2
p1 Cal 2- 10ng	2	✓	10.0	9.9	98.8
p1 Cal 3 -25ng	3	✓	25.0	24.3	97.1
p1 Cal 4-50ng	4	✓	50.0	50.4	100.8
p1 Cal 5-100ng	5	✓	100.0	98.1	98.1
p1 Cal 6-250ng	6	✓	250.0	251.4	100.6
p1 Cal 7-500ng	7	✓	500.0	506.3	101.3
p1 Cal 8-1000ng	8	✓	1000.0	1022.5	102.3



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte Citalopram **Internal Standard** Citalopram-D6

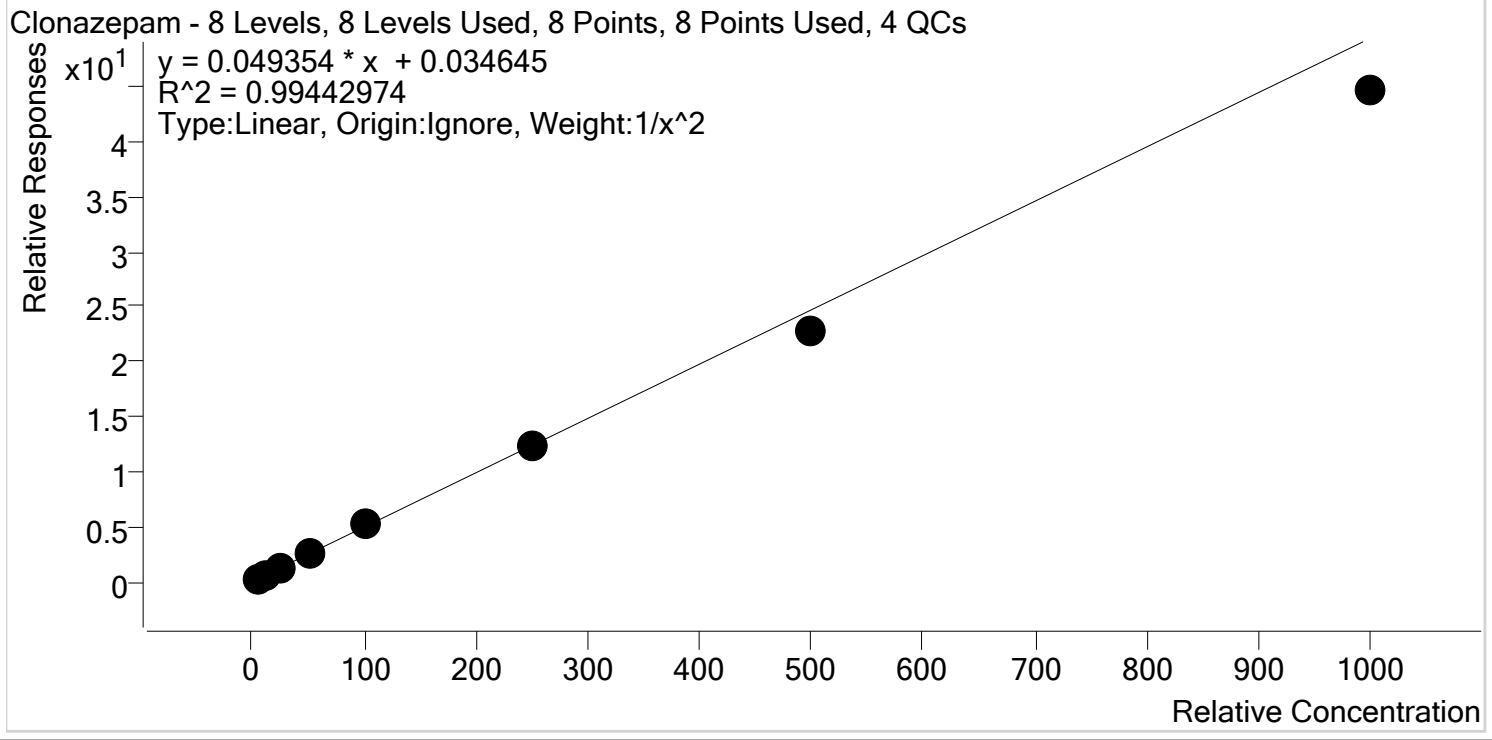


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	102.6
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.0
p1 Cal 3 -25ng	3	✓	25.0	24.6	98.4
p1 Cal 4-50ng	4	✓	50.0	50.8	101.6
p1 Cal 5-100ng	5	✓	100.0	97.4	97.4
p1 Cal 6-250ng	6	✓	250.0	248.1	99.2
p1 Cal 7-500ng	7	✓	500.0	493.6	98.7
p1 Cal 8-1000ng	8	✓	1000.0	1010.2	101.0



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte Clonazepam **Internal Standard** Clonazepam-D4

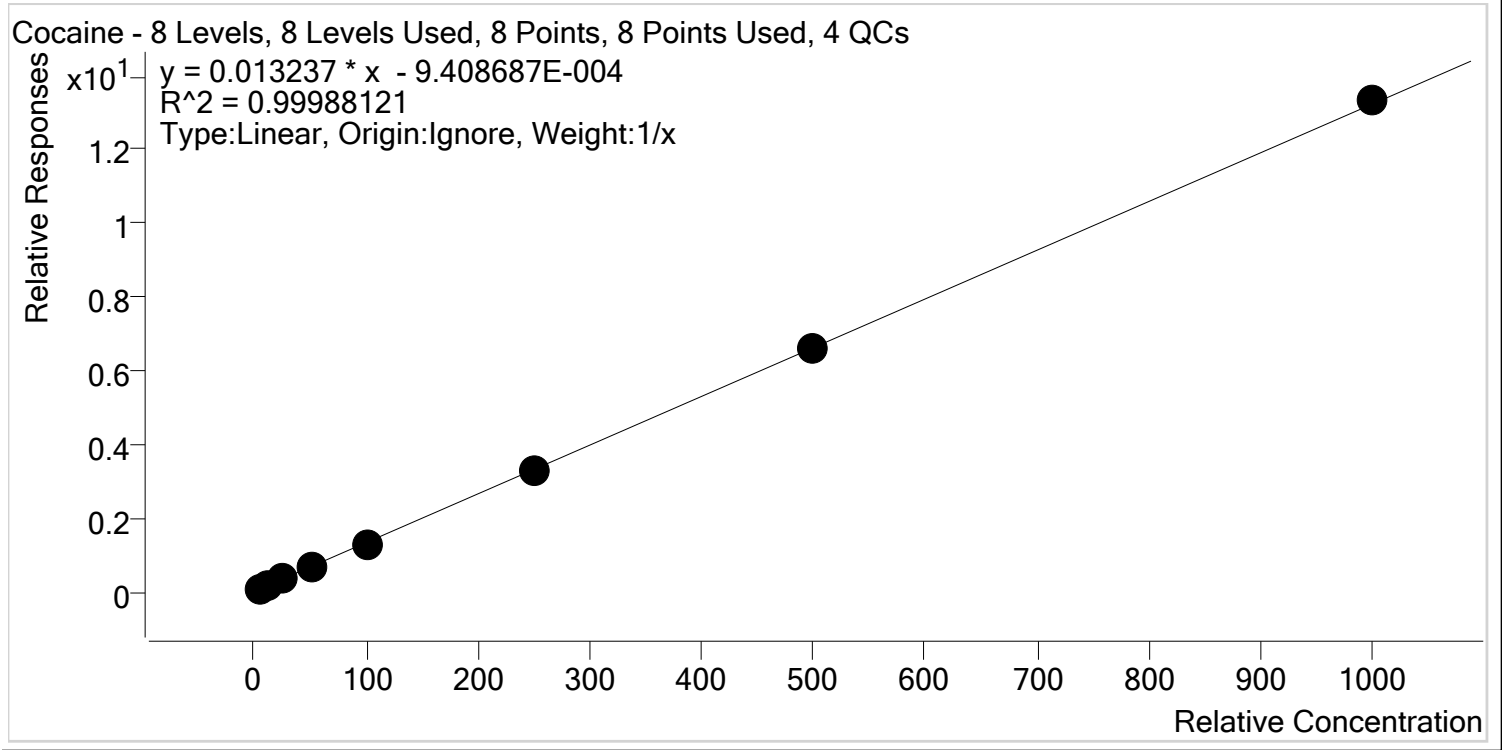


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.3
p1 Cal 2- 10ng	2	✓	10.0	10.5	105.1
p1 Cal 3 -25ng	3	✓	25.0	25.2	100.7
p1 Cal 4-50ng	4	✓	50.0	54.2	108.4
p1 Cal 5-100ng	5	✓	100.0	105.7	105.7
p1 Cal 6-250ng	6	✓	250.0	252.8	101.1
p1 Cal 7-500ng	7	✓	500.0	461.7	92.3
p1 Cal 8-1000ng	8	✓	1000.0	903.8	90.4



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte Cocaine **Internal Standard** Cocaine-d3

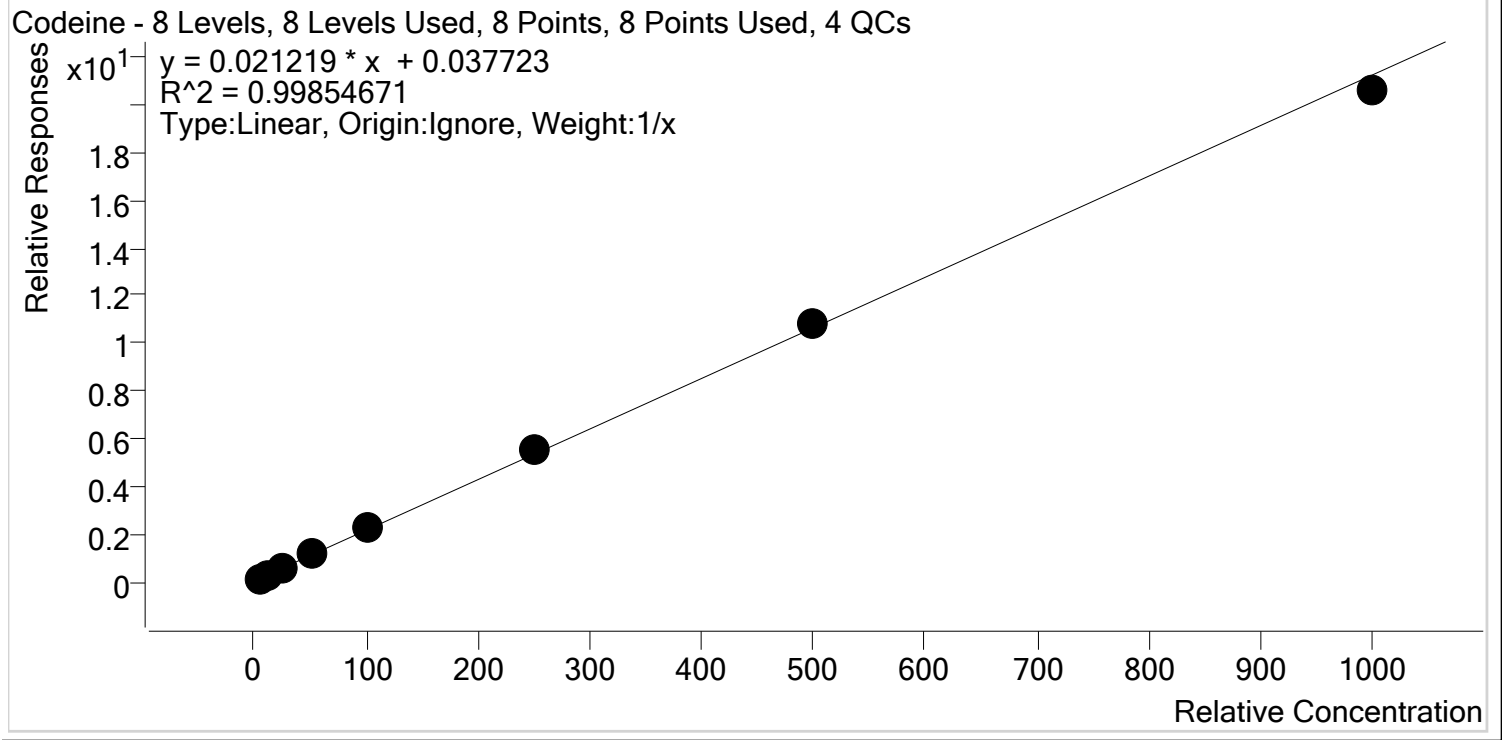


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.3	105.1
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.5
p1 Cal 3 -25ng	3	✓	25.0	24.2	96.6
p1 Cal 4-50ng	4	✓	50.0	49.7	99.5
p1 Cal 5-100ng	5	✓	100.0	97.3	97.3
p1 Cal 6-250ng	6	✓	250.0	250.4	100.1
p1 Cal 7-500ng	7	✓	500.0	495.8	99.2
p1 Cal 8-1000ng	8	✓	1000.0	1007.3	100.7



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte Codeine **Internal Standard** Codeine-D6



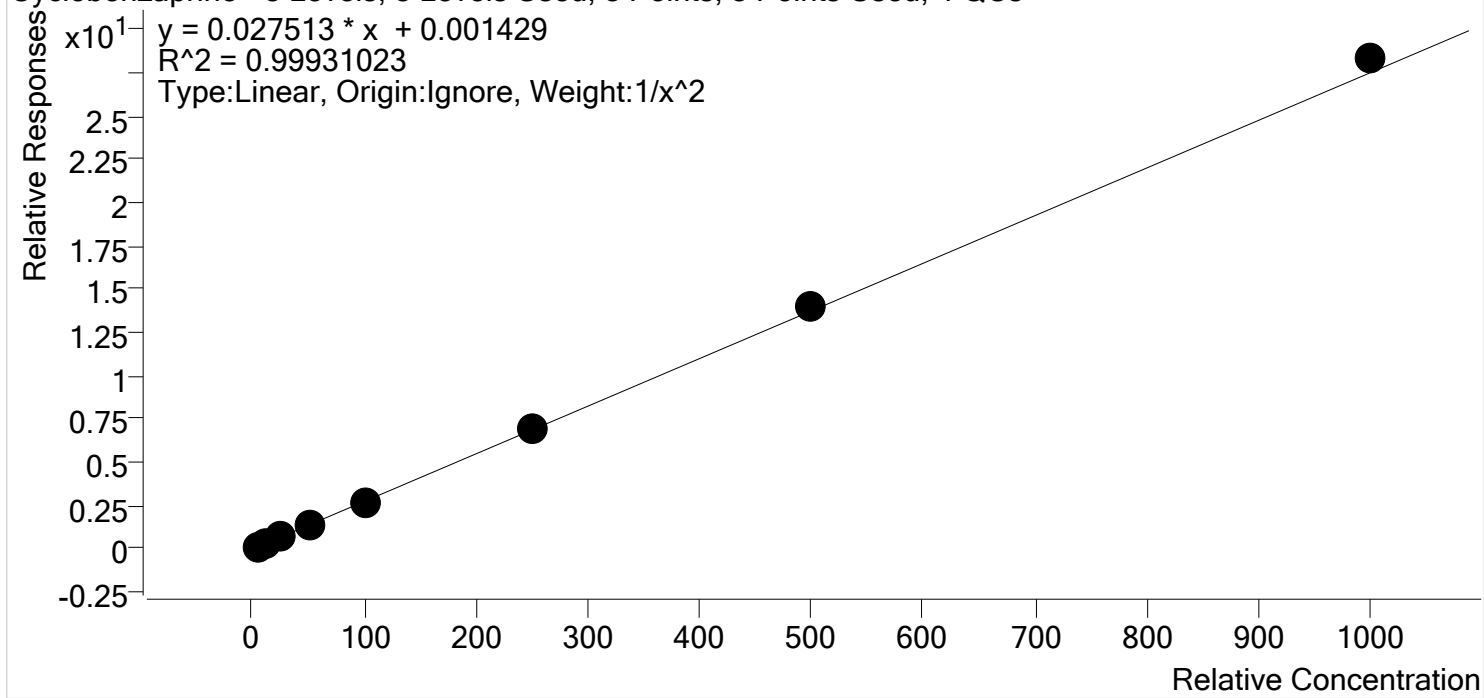
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.0	81.0
p1 Cal 2- 10ng	2	✓	10.0	9.7	97.4
p1 Cal 3 -25ng	3	✓	25.0	26.1	104.4
p1 Cal 4-50ng	4	✓	50.0	53.7	107.3
p1 Cal 5-100ng	5	✓	100.0	106.5	106.5
p1 Cal 6-250ng	6	✓	250.0	261.7	104.7
p1 Cal 7-500ng	7	✓	500.0	509.0	101.8
p1 Cal 8-1000ng	8	✓	1000.0	969.3	96.9



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte Cyclobenzaprine **Internal Standard** Cyclobenzaprine-D3

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

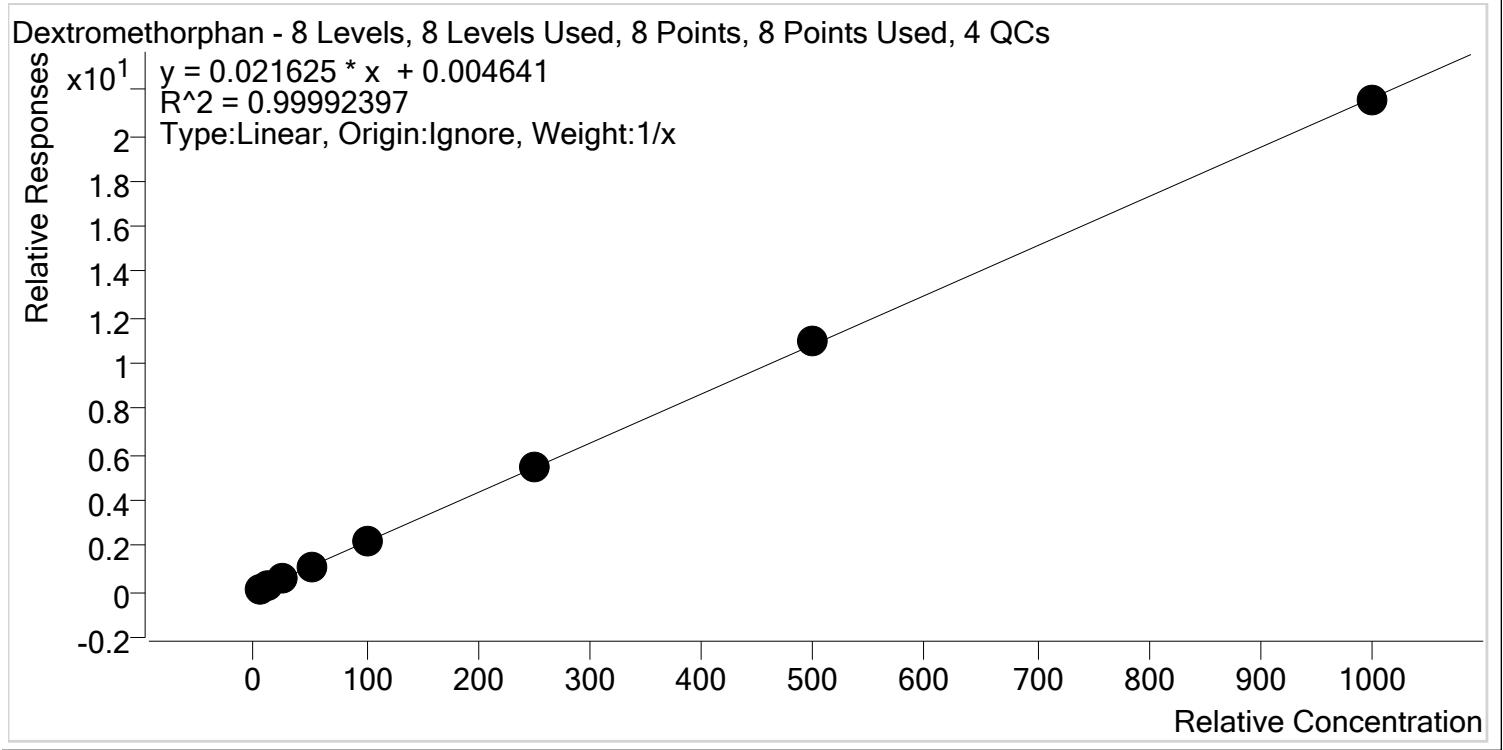


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.3
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.0
p1 Cal 3 -25ng	3	✓	25.0	24.1	96.2
p1 Cal 4-50ng	4	✓	50.0	50.2	100.3
p1 Cal 5-100ng	5	✓	100.0	97.4	97.4
p1 Cal 6-250ng	6	✓	250.0	253.5	101.4
p1 Cal 7-500ng	7	✓	500.0	506.9	101.4
p1 Cal 8-1000ng	8	✓	1000.0	1029.8	103.0



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte Dextromethorphan **Internal Standard** Dextromethorphan-D3

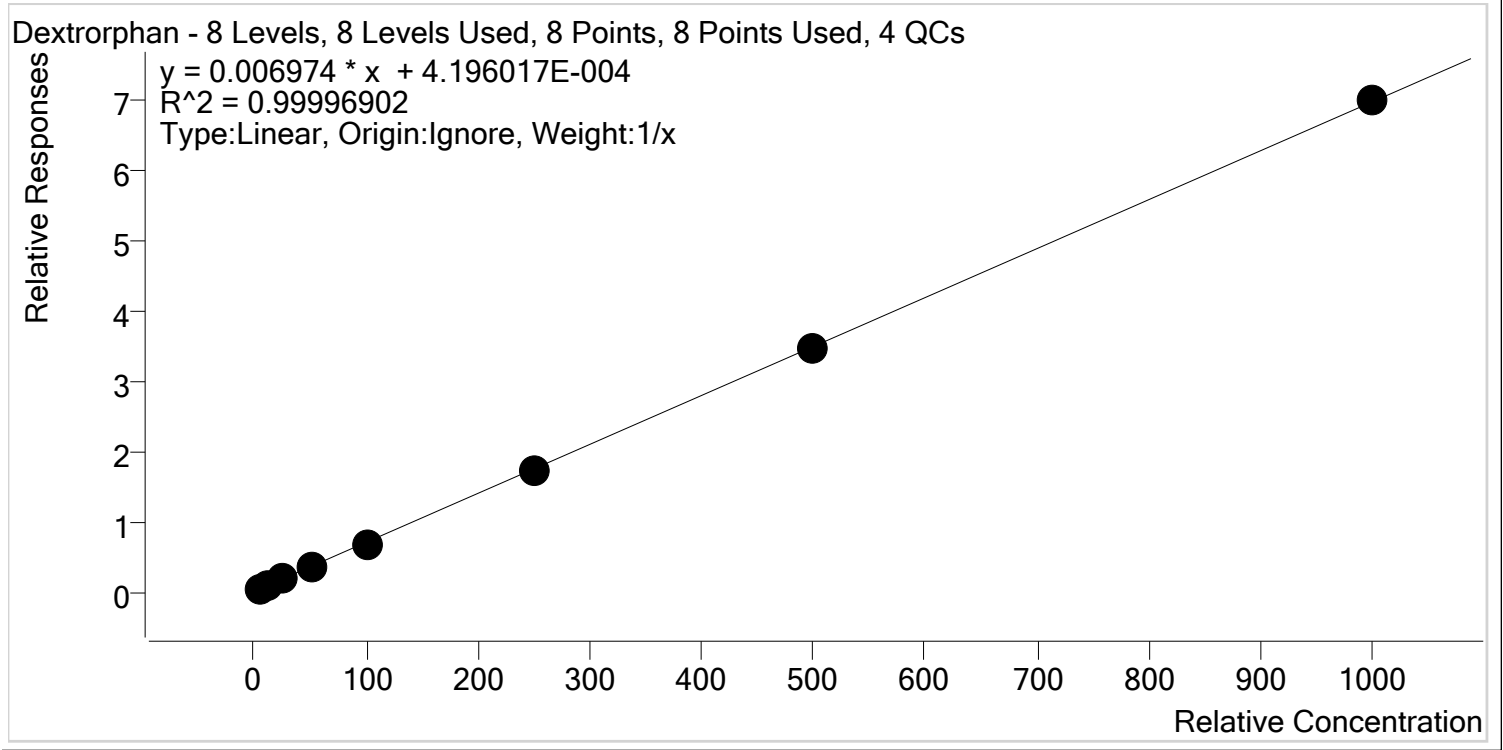


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.4
p1 Cal 2- 10ng	2	✓	10.0	9.8	98.1
p1 Cal 3 -25ng	3	✓	25.0	24.7	98.9
p1 Cal 4-50ng	4	✓	50.0	51.5	103.1
p1 Cal 5-100ng	5	✓	100.0	99.1	99.1
p1 Cal 6-250ng	6	✓	250.0	250.2	100.1
p1 Cal 7-500ng	7	✓	500.0	504.7	100.9
p1 Cal 8-1000ng	8	✓	1000.0	994.9	99.5



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte Dextrorphan **Internal Standard** Dextrorphan-D3

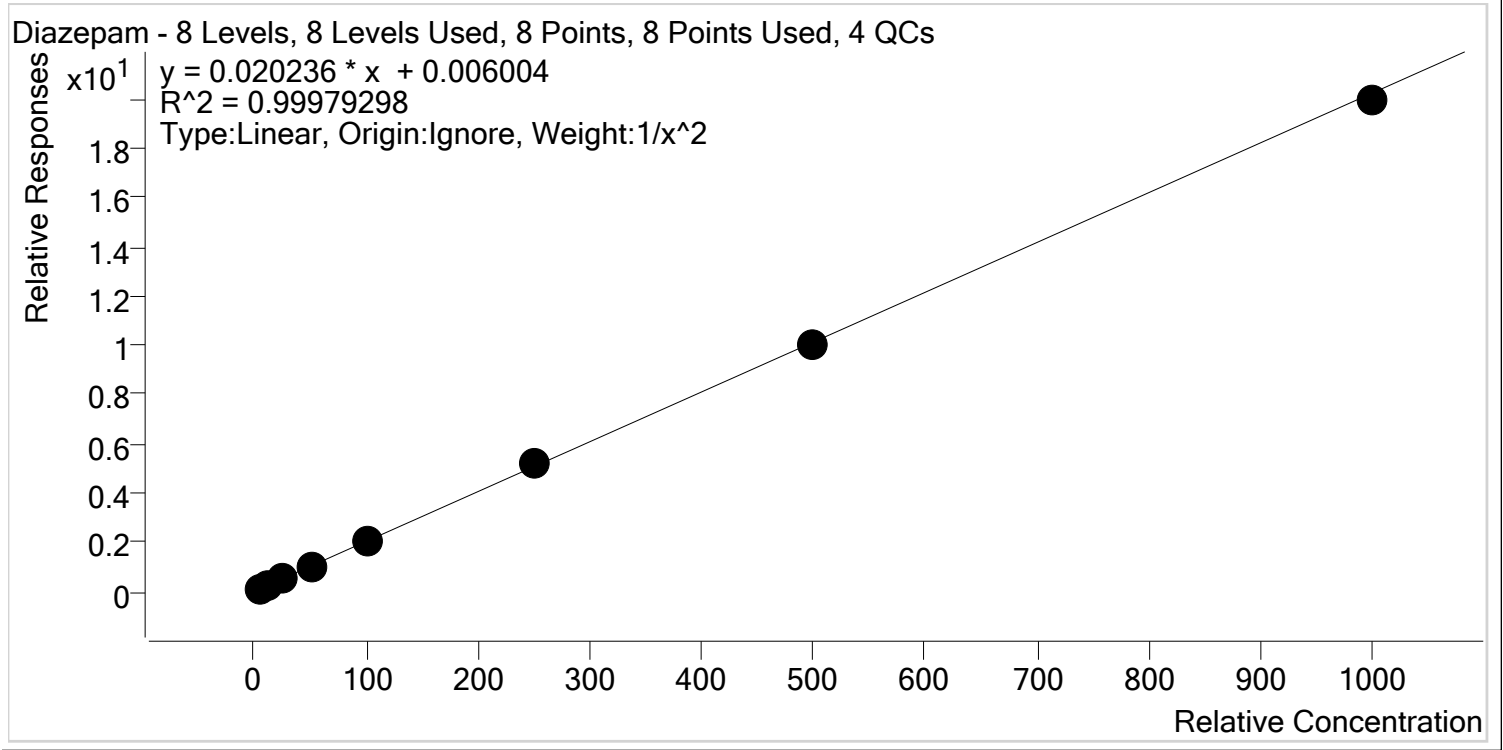


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	102.0
p1 Cal 2- 10ng	2	✓	10.0	9.9	98.5
p1 Cal 3 -25ng	3	✓	25.0	25.0	99.8
p1 Cal 4-50ng	4	✓	50.0	50.7	101.4
p1 Cal 5-100ng	5	✓	100.0	98.3	98.3
p1 Cal 6-250ng	6	✓	250.0	249.7	99.9
p1 Cal 7-500ng	7	✓	500.0	498.8	99.8
p1 Cal 8-1000ng	8	✓	1000.0	1002.6	100.3



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte Diazepam **Internal Standard** Diazepam-D5

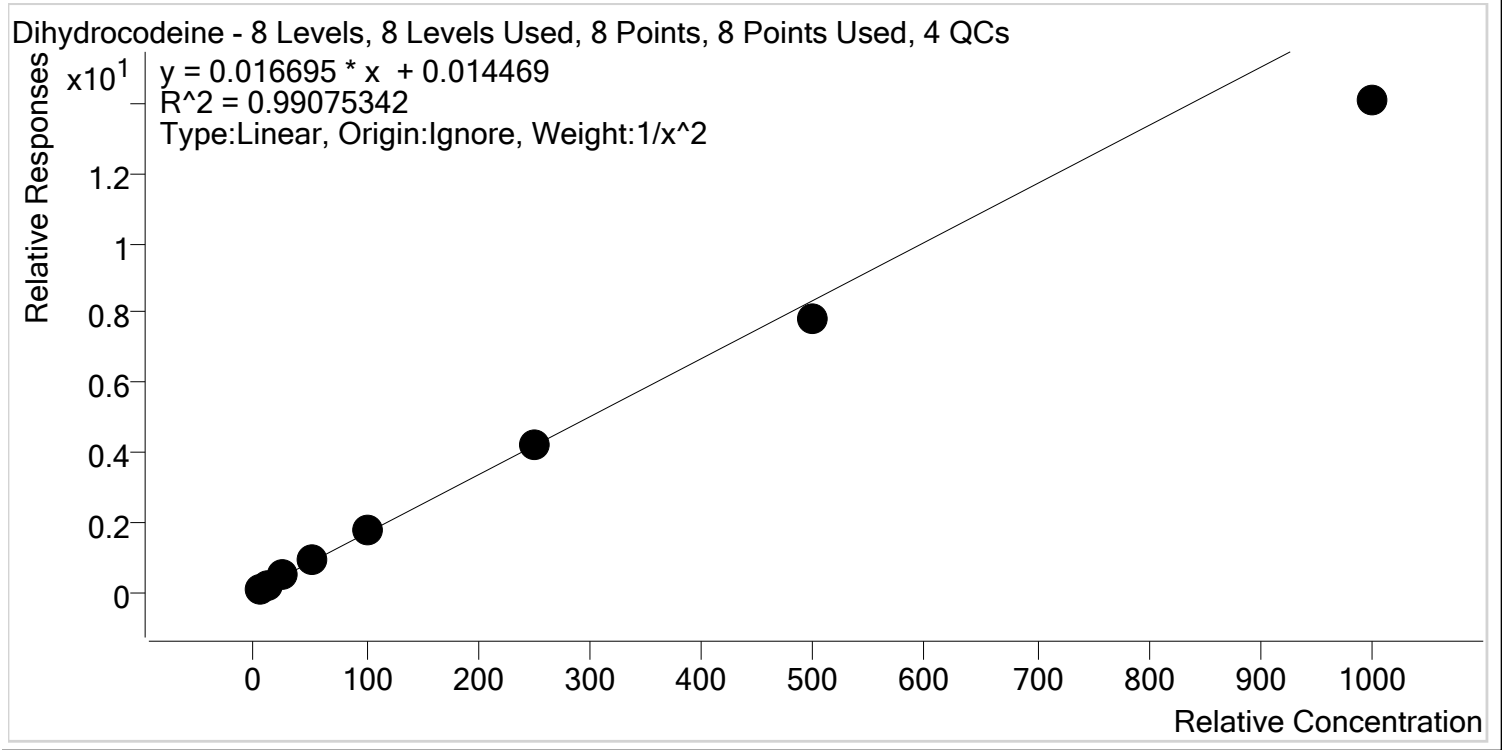


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.2
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.3
p1 Cal 3 -25ng	3	✓	25.0	24.9	99.8
p1 Cal 4-50ng	4	✓	50.0	51.0	102.0
p1 Cal 5-100ng	5	✓	100.0	99.6	99.6
p1 Cal 6-250ng	6	✓	250.0	254.2	101.7
p1 Cal 7-500ng	7	✓	500.0	494.8	99.0
p1 Cal 8-1000ng	8	✓	1000.0	984.9	98.5



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte Dihydrocodeine **Internal Standard** Dihydrocodeine-D6

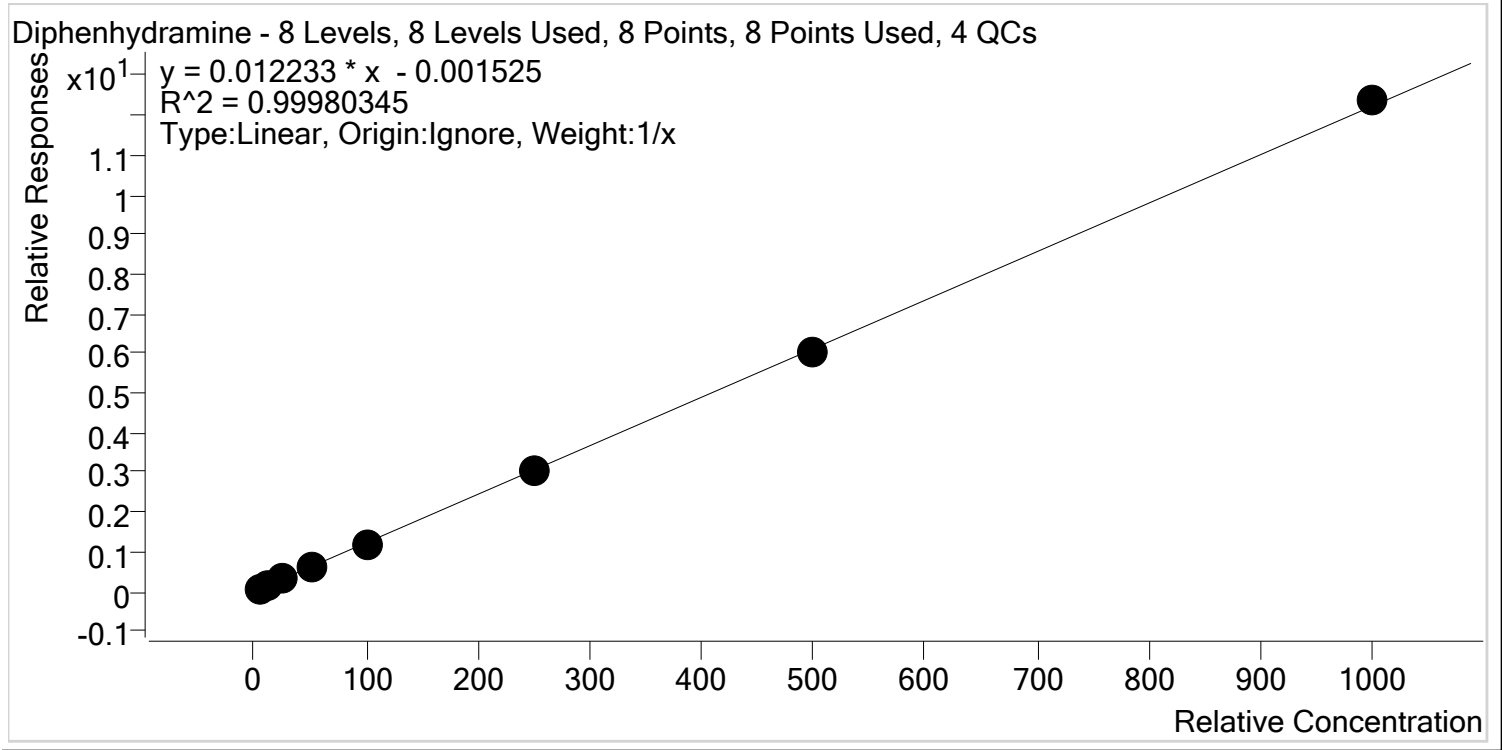


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.3
p1 Cal 2- 10ng	2	✓	10.0	10.4	104.1
p1 Cal 3 -25ng	3	✓	25.0	27.0	108.0
p1 Cal 4-50ng	4	✓	50.0	54.6	109.2
p1 Cal 5-100ng	5	✓	100.0	104.5	104.5
p1 Cal 6-250ng	6	✓	250.0	252.2	100.9
p1 Cal 7-500ng	7	✓	500.0	468.9	93.8
p1 Cal 8-1000ng	8	✓	1000.0	842.9	84.3



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte Diphenhydramine **Internal Standard** Diphenhydramine-D3

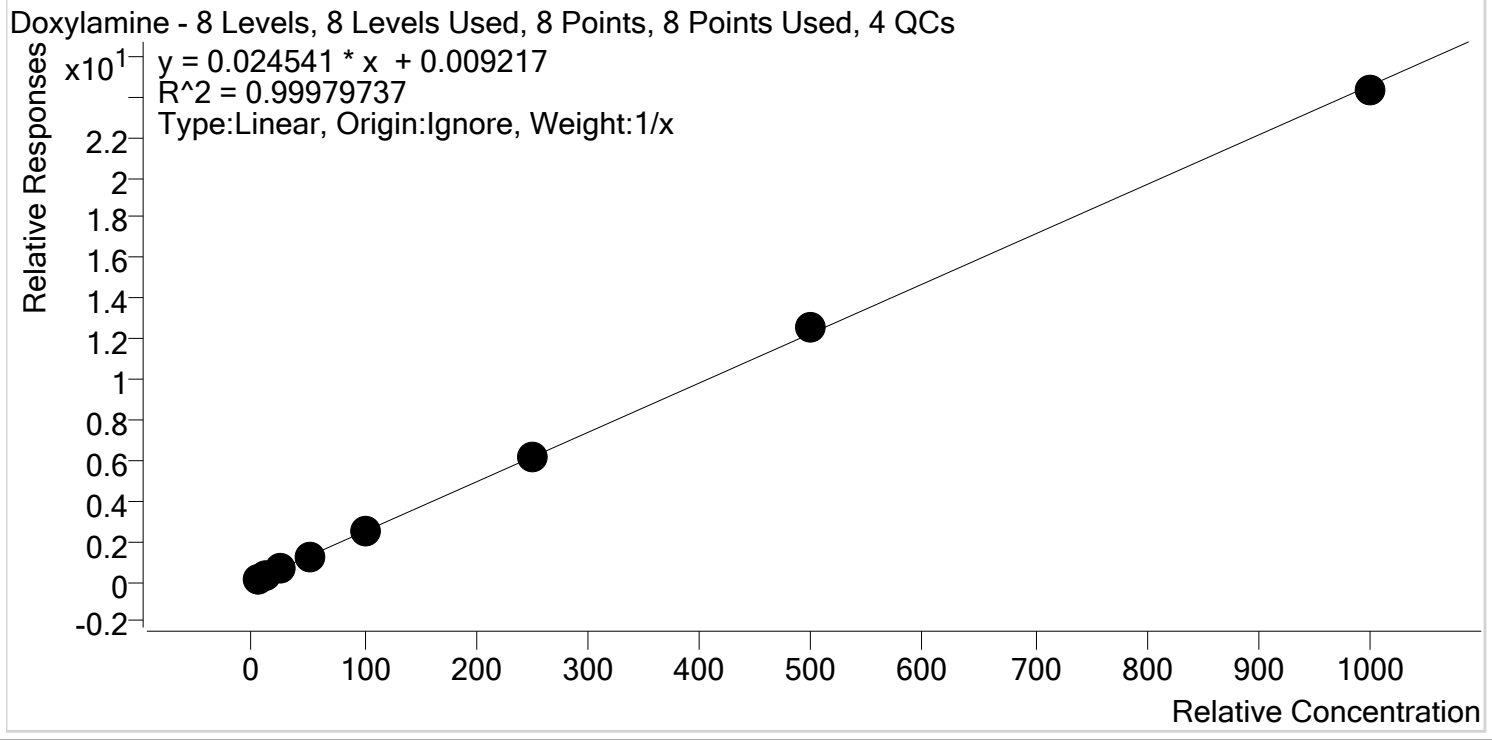


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.3	105.4
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.0
p1 Cal 3 -25ng	3	✓	25.0	24.5	98.1
p1 Cal 4-50ng	4	✓	50.0	49.8	99.7
p1 Cal 5-100ng	5	✓	100.0	96.9	96.9
p1 Cal 6-250ng	6	✓	250.0	246.8	98.7
p1 Cal 7-500ng	7	✓	500.0	494.9	99.0
p1 Cal 8-1000ng	8	✓	1000.0	1011.6	101.2



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte Doxylamine **Internal Standard** Doxylamine-D5

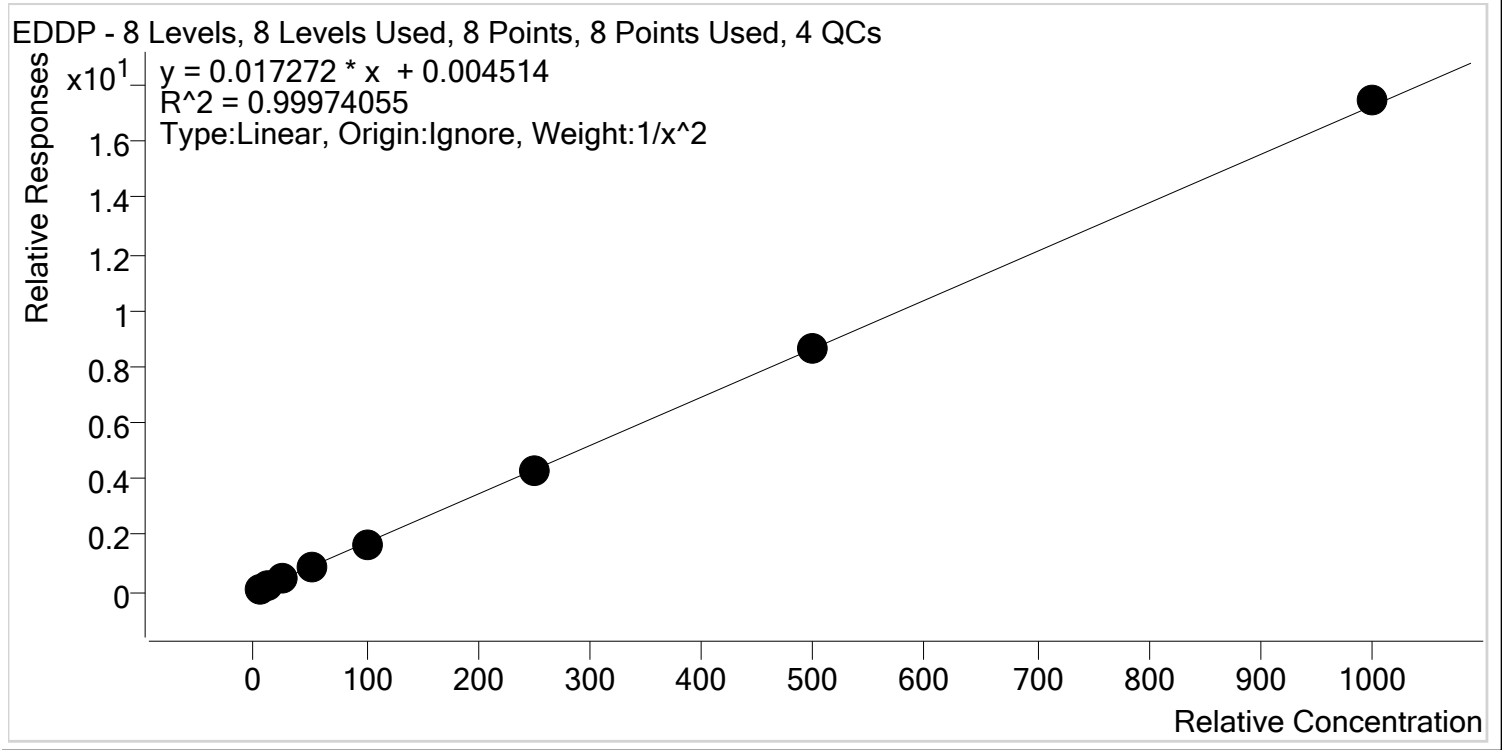


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.9
p1 Cal 2- 10ng	2	✓	10.0	9.9	98.8
p1 Cal 3 -25ng	3	✓	25.0	24.9	99.5
p1 Cal 4-50ng	4	✓	50.0	51.5	103.1
p1 Cal 5-100ng	5	✓	100.0	98.2	98.2
p1 Cal 6-250ng	6	✓	250.0	251.9	100.7
p1 Cal 7-500ng	7	✓	500.0	508.9	101.8
p1 Cal 8-1000ng	8	✓	1000.0	989.8	99.0



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte EDDP **Internal Standard** EDDP-D3

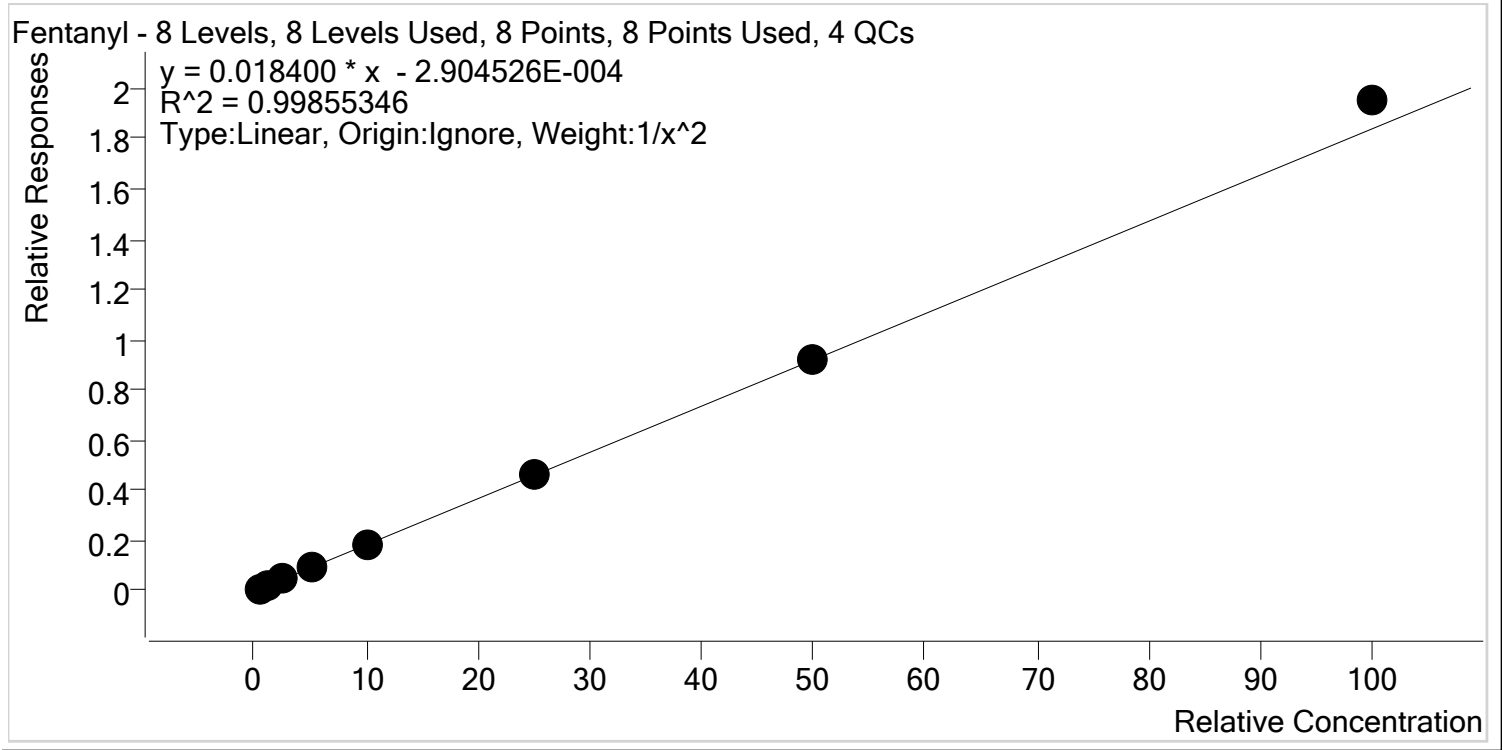


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.7
p1 Cal 2- 10ng	2	✓	10.0	9.9	98.6
p1 Cal 3 -25ng	3	✓	25.0	24.8	99.3
p1 Cal 4-50ng	4	✓	50.0	51.0	102.1
p1 Cal 5-100ng	5	✓	100.0	97.8	97.8
p1 Cal 6-250ng	6	✓	250.0	251.4	100.5
p1 Cal 7-500ng	7	✓	500.0	499.2	99.8
p1 Cal 8-1000ng	8	✓	1000.0	1011.2	101.1



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte Fentanyl **Internal Standard** Fentanyl-D5

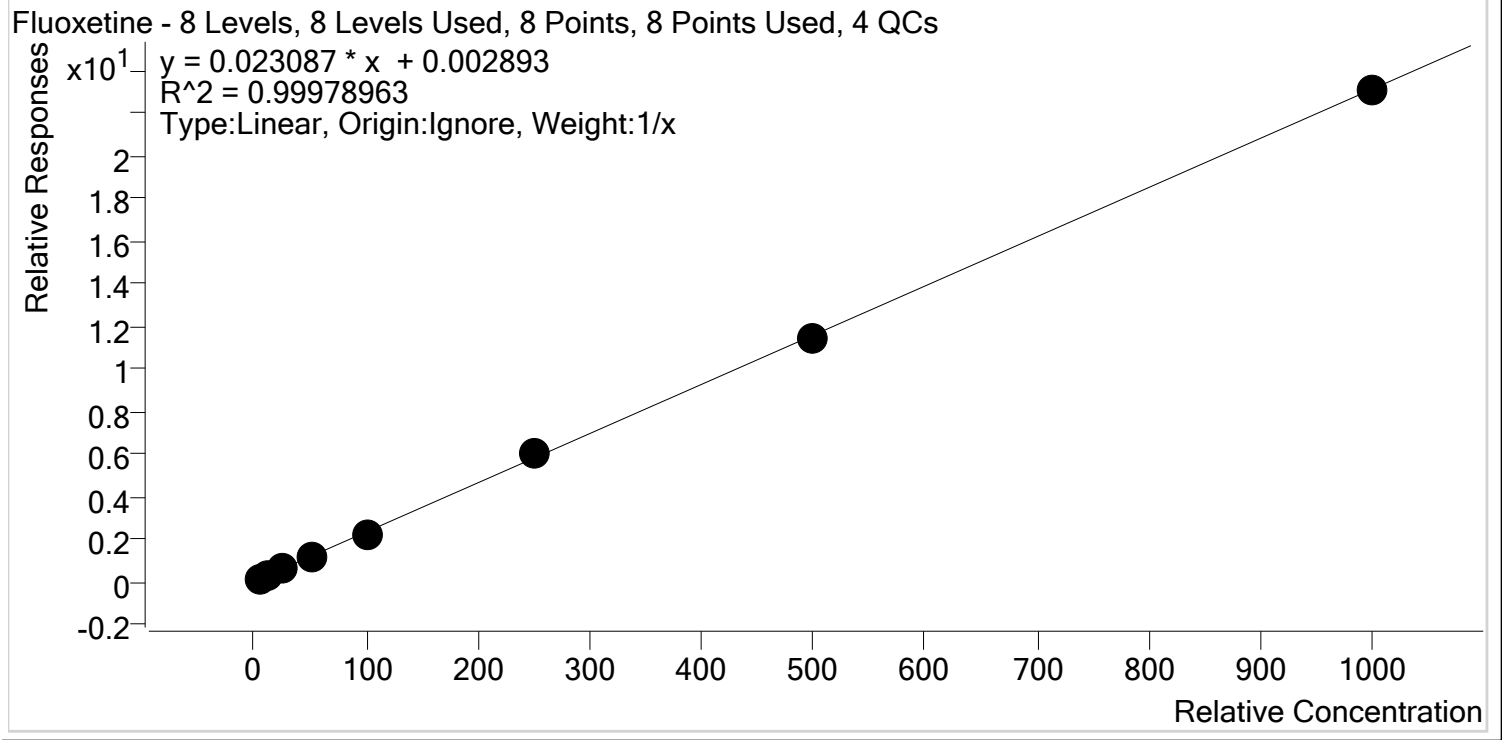


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	102.6
p1 Cal 2- 10ng	2	✓	1.0	1.0	96.7
p1 Cal 3 -25ng	3	✓	2.5	2.4	95.9
p1 Cal 4-50ng	4	✓	5.0	5.0	99.2
p1 Cal 5-100ng	5	✓	10.0	9.8	98.1
p1 Cal 6-250ng	6	✓	25.0	25.2	100.7
p1 Cal 7-500ng	7	✓	50.0	50.3	100.7
p1 Cal 8-1000ng	8	✓	100.0	106.1	106.1



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte Fluoxetine **Internal Standard** Fluoxetine-D6

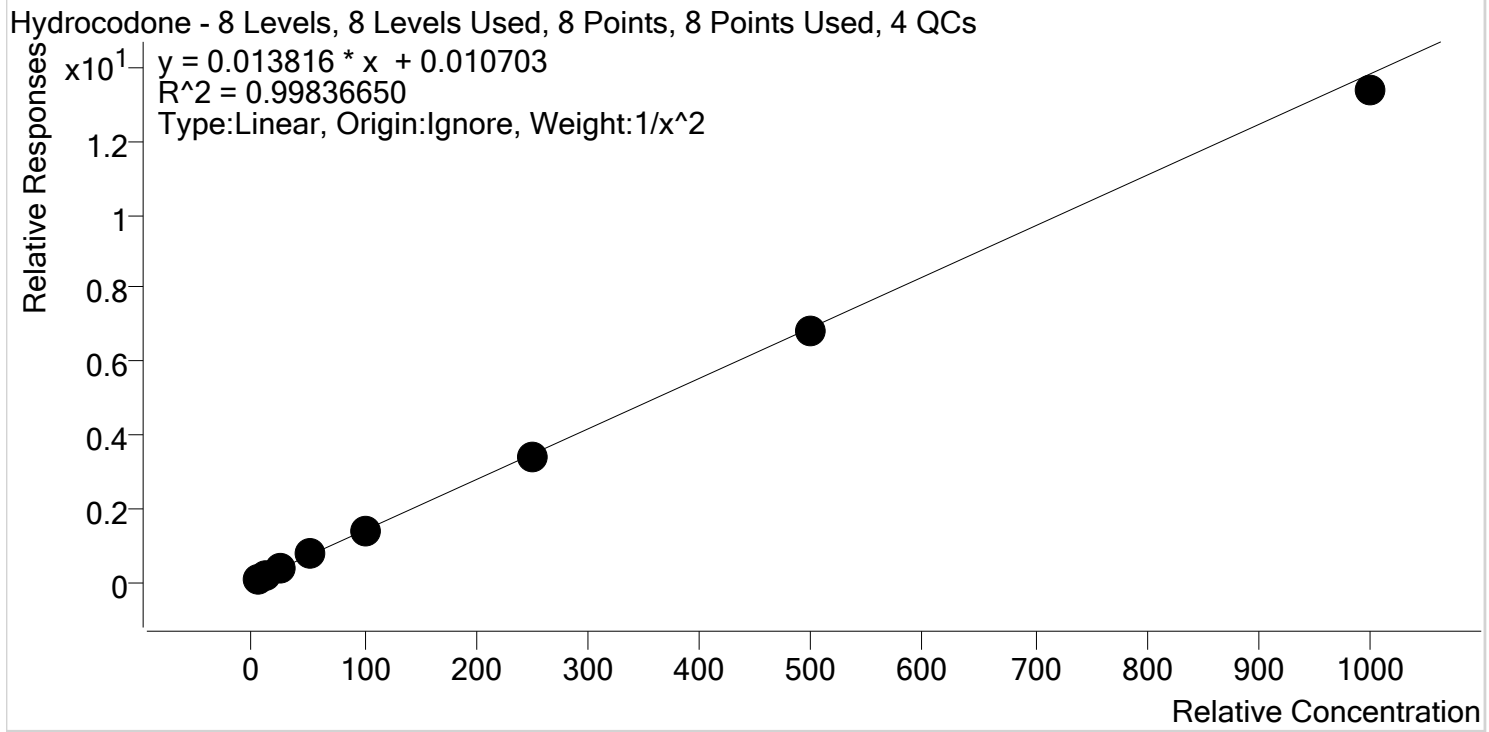


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.3
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.9
p1 Cal 3 -25ng	3	✓	25.0	24.8	99.4
p1 Cal 4-50ng	4	✓	50.0	50.3	100.7
p1 Cal 5-100ng	5	✓	100.0	97.4	97.4
p1 Cal 6-250ng	6	✓	250.0	258.3	103.3
p1 Cal 7-500ng	7	✓	500.0	497.1	99.4
p1 Cal 8-1000ng	8	✓	1000.0	997.1	99.7



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte Hydrocodone **Internal Standard** Hydrocodone-D6



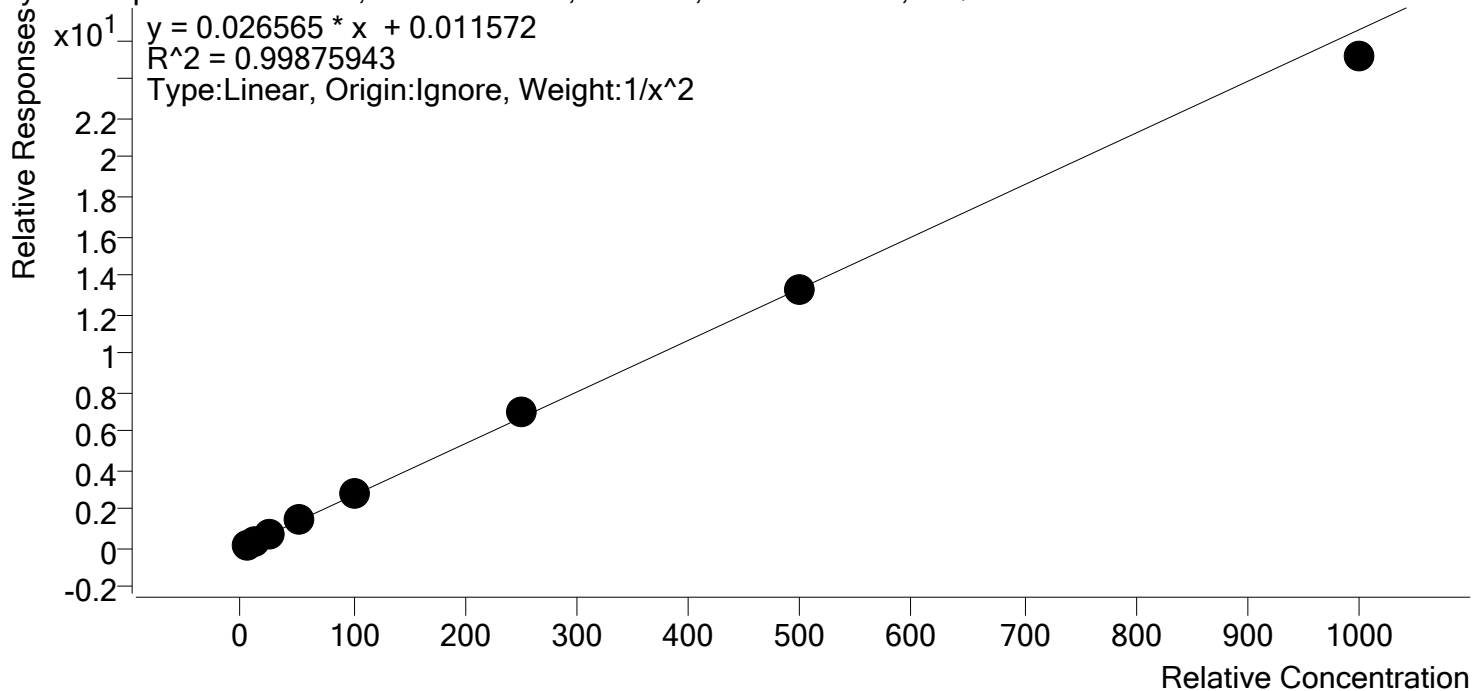
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.7
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.0
p1 Cal 3 -25ng	3	✓	25.0	26.3	105.2
p1 Cal 4-50ng	4	✓	50.0	52.4	104.7
p1 Cal 5-100ng	5	✓	100.0	97.1	97.1
p1 Cal 6-250ng	6	✓	250.0	243.0	97.2
p1 Cal 7-500ng	7	✓	500.0	496.9	99.4
p1 Cal 8-1000ng	8	✓	1000.0	967.1	96.7



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte Hydromorphone **Internal Standard** Hydromorphone-D6

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

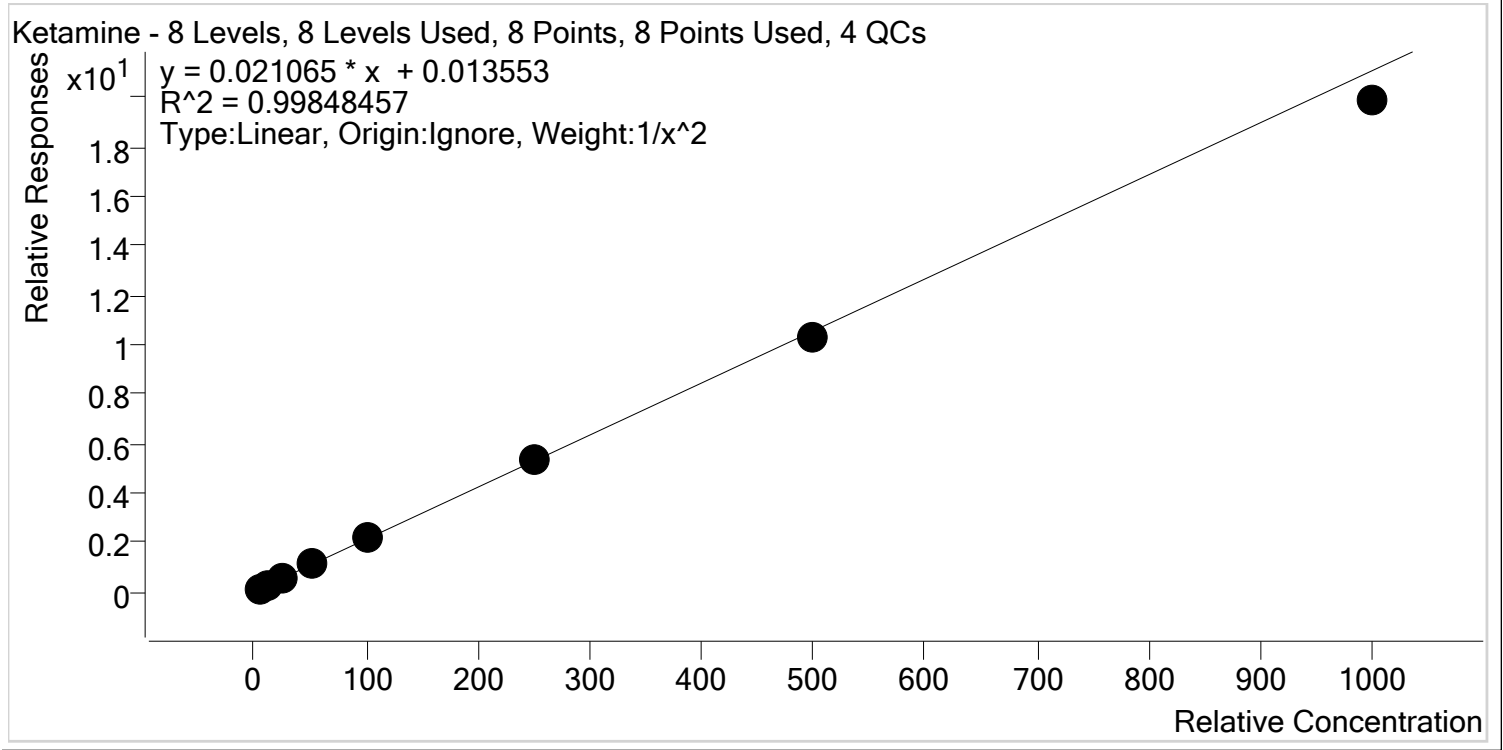


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.9
p1 Cal 2- 10ng	2	✓	10.0	9.8	98.3
p1 Cal 3 -25ng	3	✓	25.0	24.4	97.7
p1 Cal 4-50ng	4	✓	50.0	51.1	102.2
p1 Cal 5-100ng	5	✓	100.0	102.4	102.4
p1 Cal 6-250ng	6	✓	250.0	260.7	104.3
p1 Cal 7-500ng	7	✓	500.0	496.6	99.3
p1 Cal 8-1000ng	8	✓	1000.0	948.1	94.8



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte Ketamine **Internal Standard** Ketamine-D4

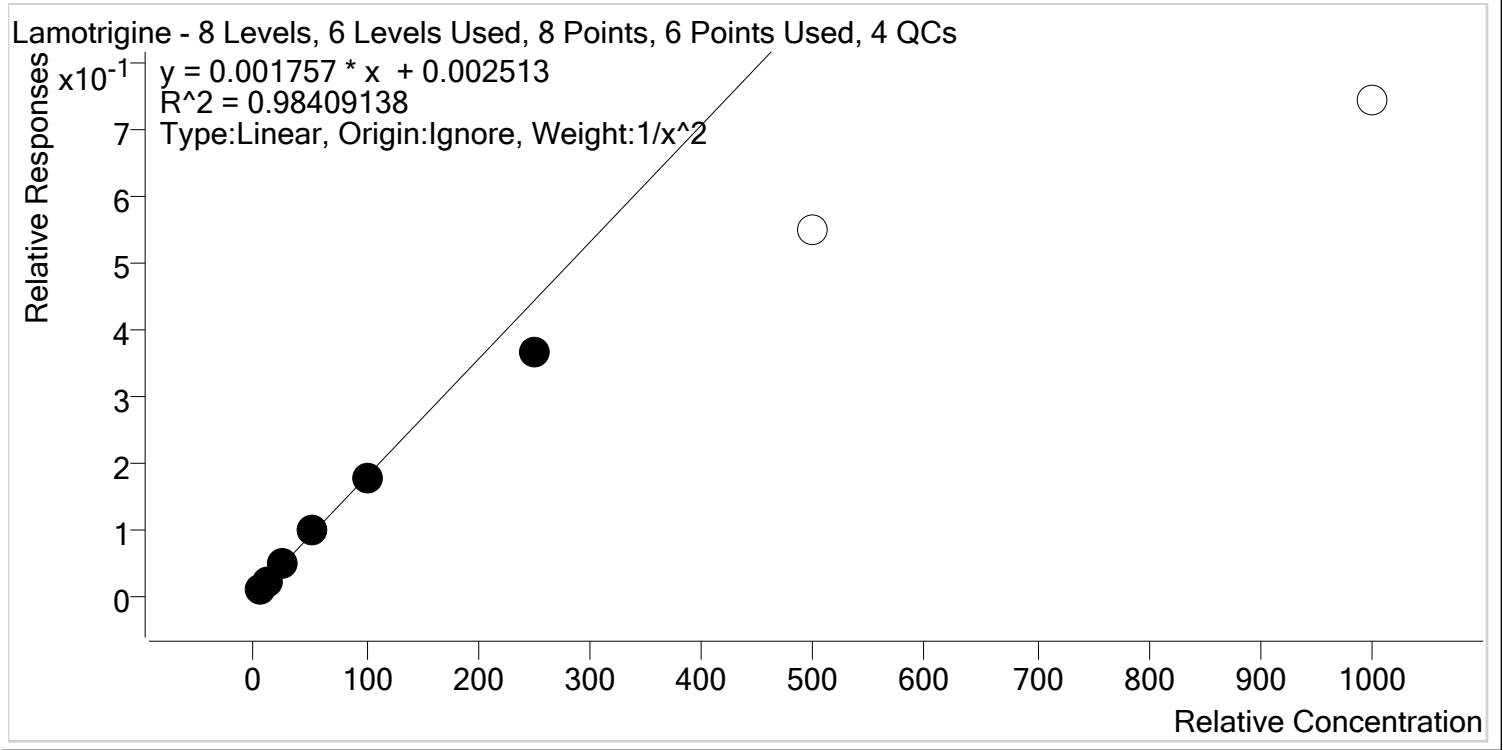


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.3
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.3
p1 Cal 3 -25ng	3	✓	25.0	25.7	102.7
p1 Cal 4-50ng	4	✓	50.0	52.5	105.1
p1 Cal 5-100ng	5	✓	100.0	100.8	100.8
p1 Cal 6-250ng	6	✓	250.0	250.9	100.4
p1 Cal 7-500ng	7	✓	500.0	485.6	97.1
p1 Cal 8-1000ng	8	✓	1000.0	942.5	94.3



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte Lamotrigine **Internal Standard** Ketamine-D4

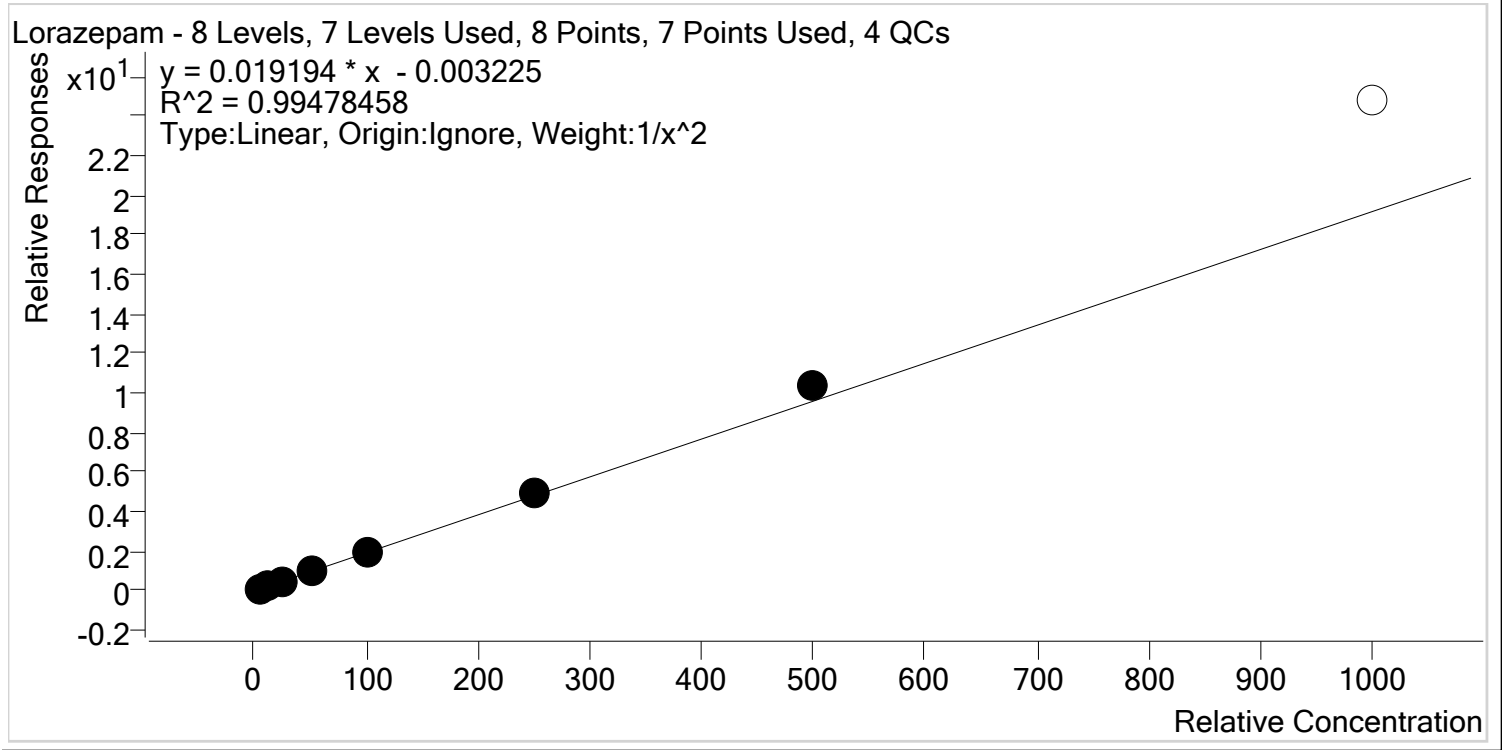


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.6
p1 Cal 2- 10ng	2	✓	10.0	10.4	103.9
p1 Cal 3 -25ng	3	✓	25.0	27.5	109.8
p1 Cal 4-50ng	4	✓	50.0	54.6	109.2
p1 Cal 5-100ng	5	✓	100.0	99.5	99.5
p1 Cal 6-250ng	6	✓	250.0	205.2	82.1
p1 Cal 7-500ng	7	✗	500.0	311.8	62.4
p1 Cal 8-1000ng	8	✗	1000.0	420.8	42.1



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte Lorazepam **Internal Standard** Clonazepam-D4

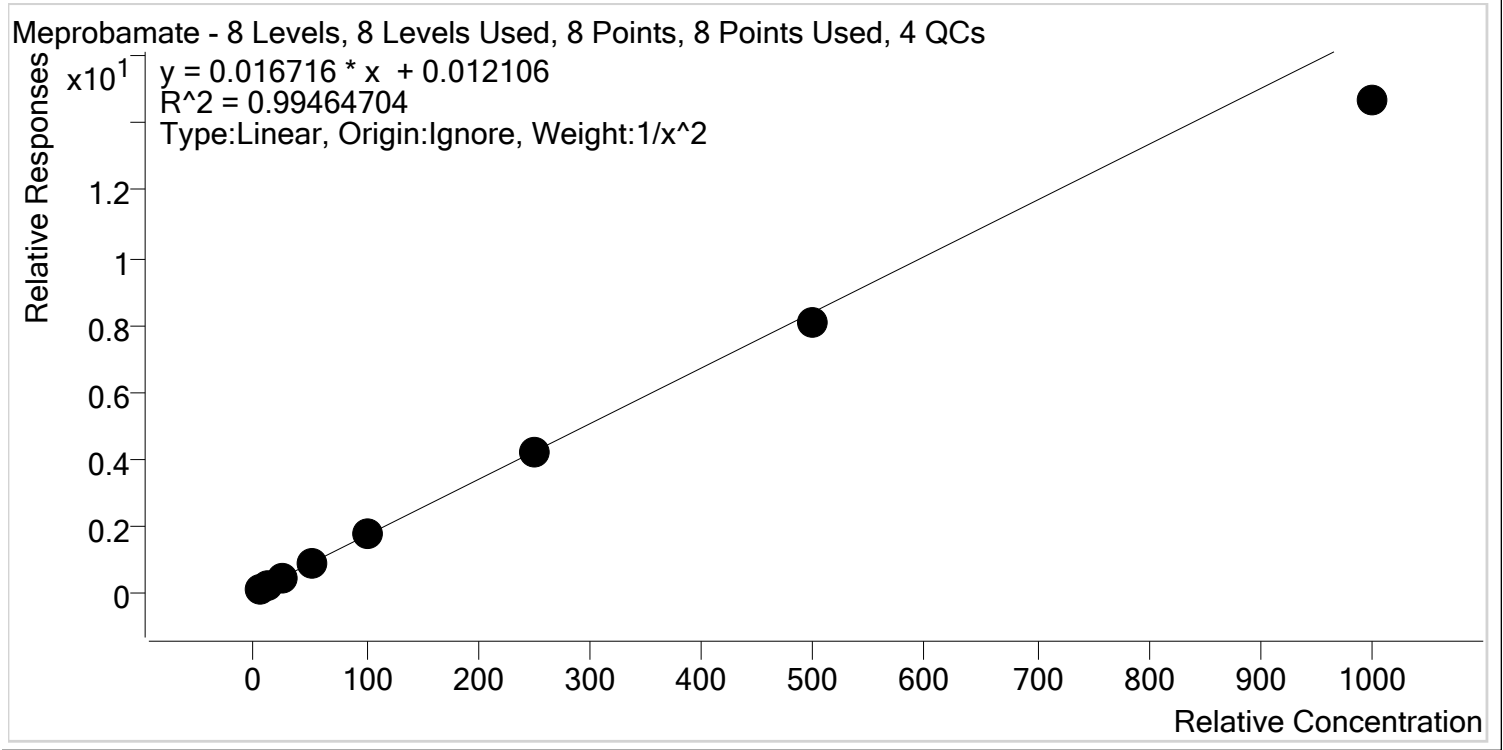


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.3	105.5
p1 Cal 2- 10ng	2	✓	10.0	9.2	91.8
p1 Cal 3 -25ng	3	✓	25.0	23.4	93.5
p1 Cal 4-50ng	4	✓	50.0	49.3	98.6
p1 Cal 5-100ng	5	✓	100.0	98.5	98.5
p1 Cal 6-250ng	6	✓	250.0	260.3	104.1
p1 Cal 7-500ng	7	✓	500.0	540.0	108.0
p1 Cal 8-1000ng	8	✗	1000.0	1292.8	129.3



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte Meprobamate **Internal Standard** Meprobamate-D7



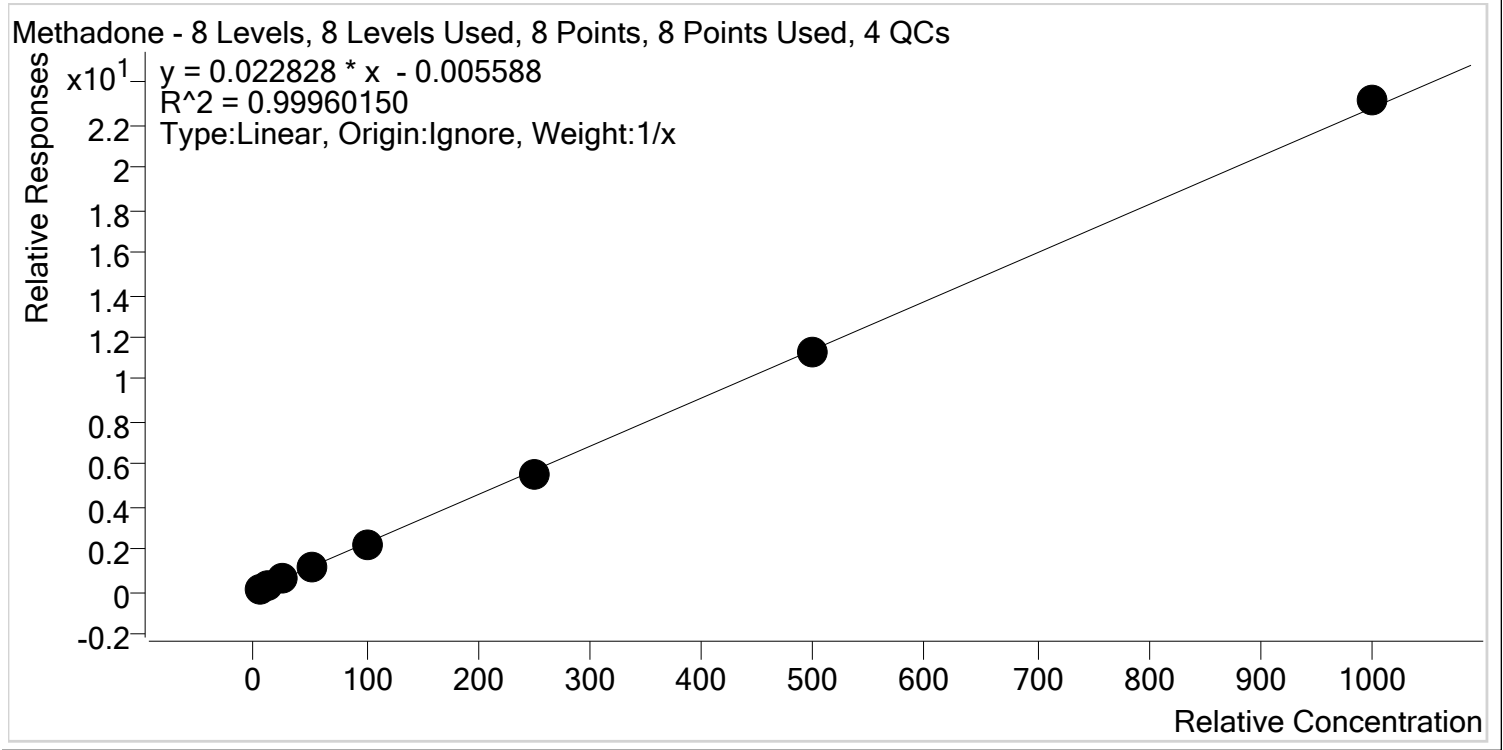
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.8
p1 Cal 2- 10ng	2	✓	10.0	10.5	104.8
p1 Cal 3 -25ng	3	✓	25.0	26.4	105.7
p1 Cal 4-50ng	4	✓	50.0	53.4	106.8
p1 Cal 5-100ng	5	✓	100.0	101.8	101.8
p1 Cal 6-250ng	6	✓	250.0	252.2	100.9
p1 Cal 7-500ng	7	✓	500.0	482.1	96.4
p1 Cal 8-1000ng	8	✓	1000.0	878.6	87.9

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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte Methadone **Internal Standard** Methadone-D9

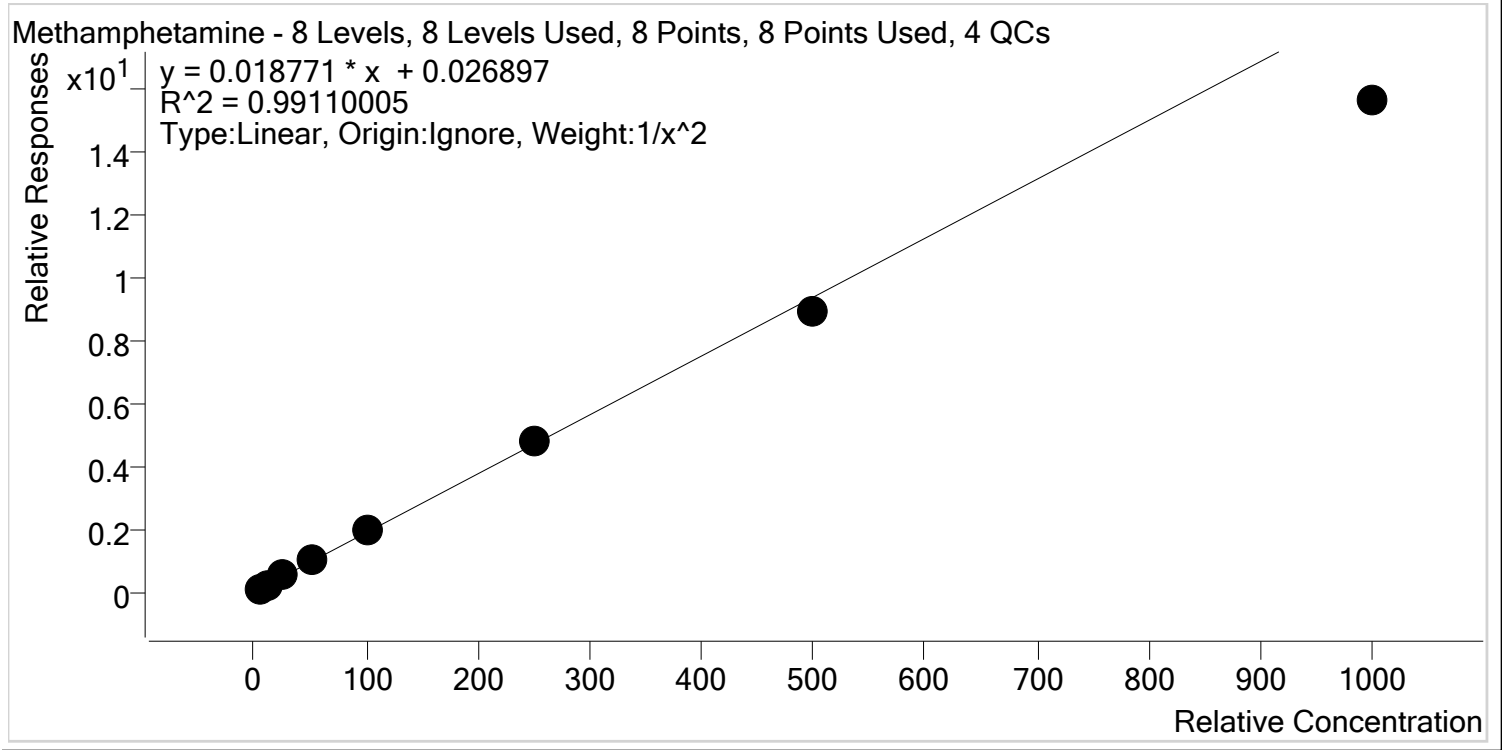


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.5	109.1
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.5
p1 Cal 3 -25ng	3	✓	25.0	24.4	97.7
p1 Cal 4-50ng	4	✓	50.0	49.4	98.8
p1 Cal 5-100ng	5	✓	100.0	96.1	96.1
p1 Cal 6-250ng	6	✓	250.0	242.3	96.9
p1 Cal 7-500ng	7	✓	500.0	497.0	99.4
p1 Cal 8-1000ng	8	✓	1000.0	1015.3	101.5



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte Methamphetamine **Internal Standard** Methamphetamine-D11

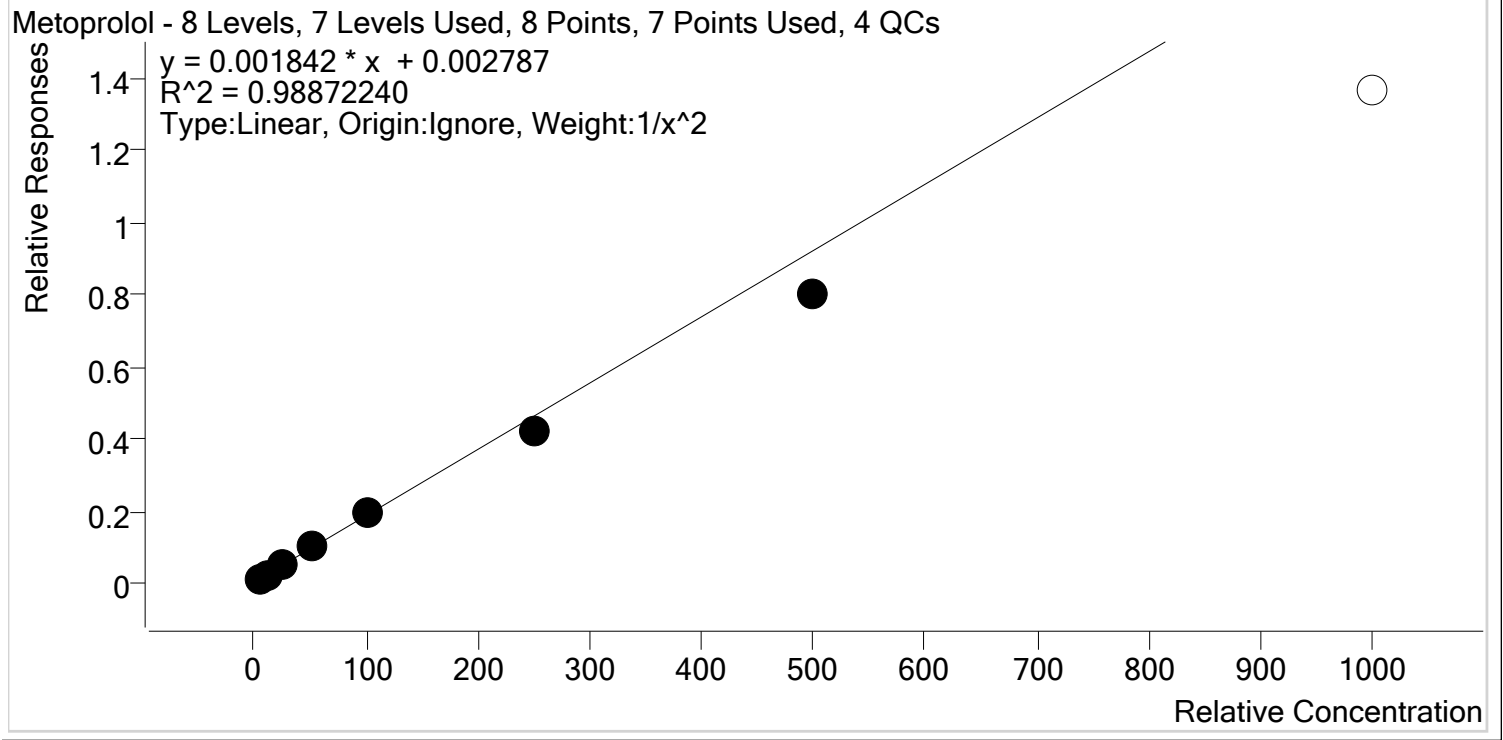


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.2
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.8
p1 Cal 3 -25ng	3	✓	25.0	26.7	106.8
p1 Cal 4-50ng	4	✓	50.0	54.4	108.9
p1 Cal 5-100ng	5	✓	100.0	105.9	105.9
p1 Cal 6-250ng	6	✓	250.0	255.3	102.1
p1 Cal 7-500ng	7	✓	500.0	475.2	95.0
p1 Cal 8-1000ng	8	✓	1000.0	833.7	83.4



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte Metoprolol **Internal Standard** Tramadol-13C-D3

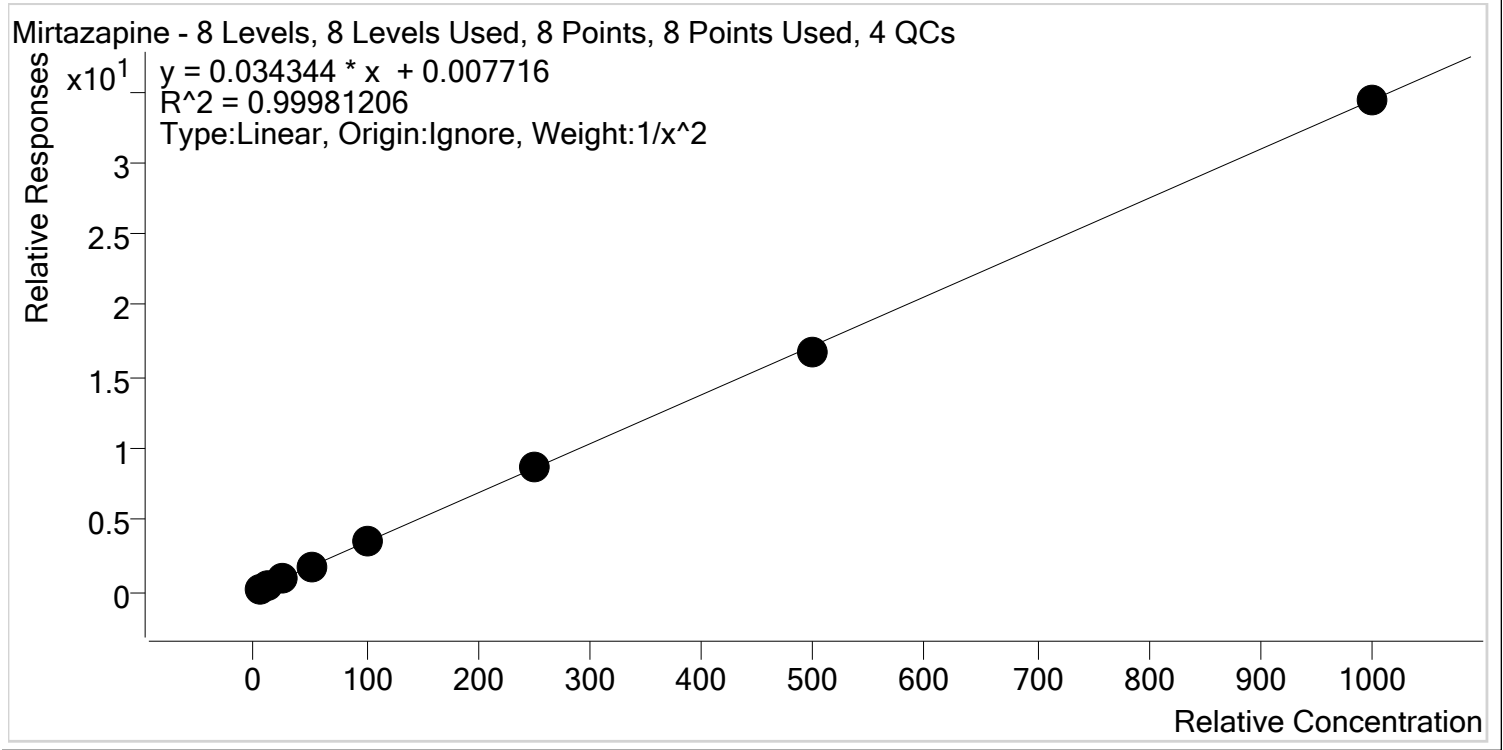


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.1
p1 Cal 2- 10ng	2	✓	10.0	10.4	104.2
p1 Cal 3 -25ng	3	✓	25.0	27.4	109.5
p1 Cal 4-50ng	4	✓	50.0	55.1	110.3
p1 Cal 5-100ng	5	✓	100.0	102.4	102.4
p1 Cal 6-250ng	6	✓	250.0	229.0	91.6
p1 Cal 7-500ng	7	✓	500.0	434.0	86.8
p1 Cal 8-1000ng	8	✗	1000.0	741.4	74.1



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte Mirtazapine **Internal Standard** alpha-PVP-d8

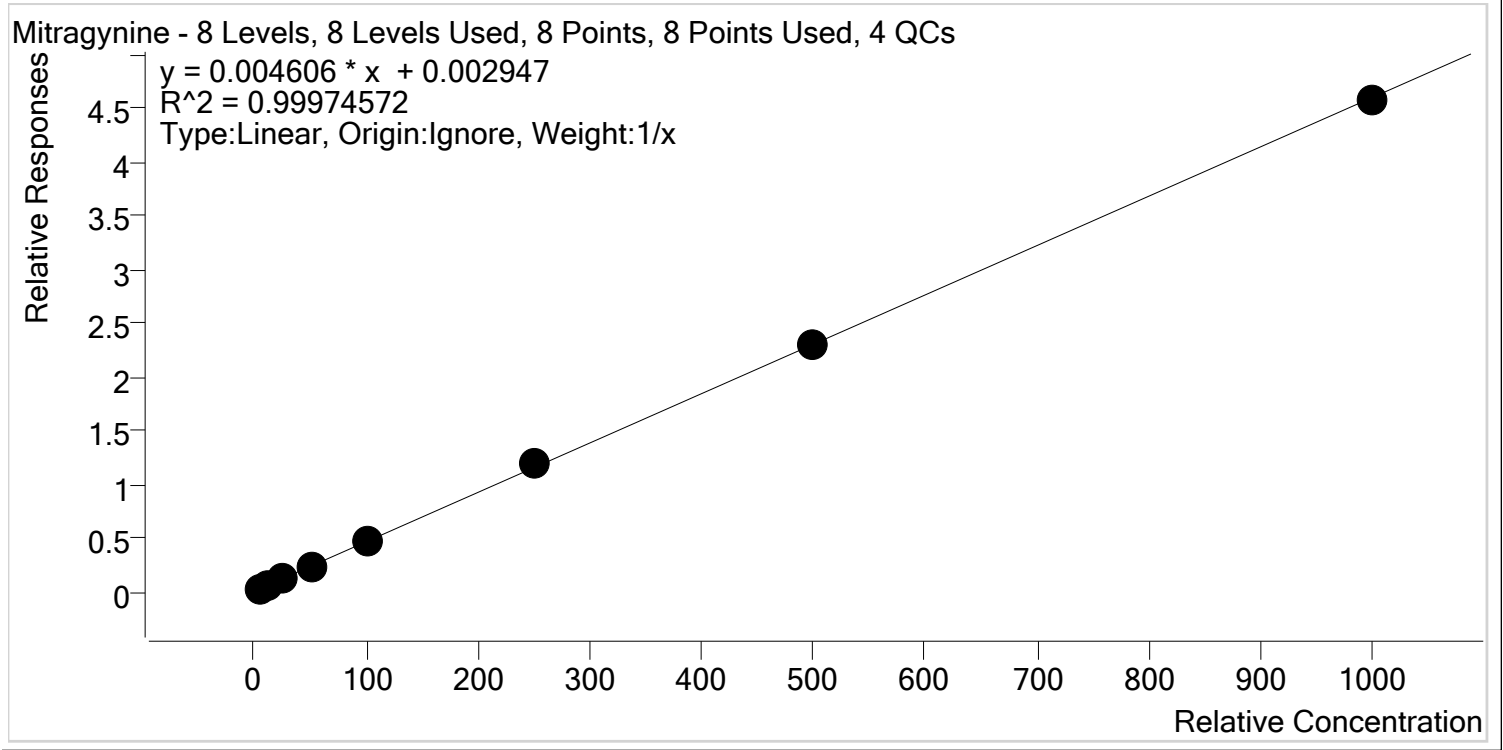


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.1
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.7
p1 Cal 3 -25ng	3	✓	25.0	24.8	99.0
p1 Cal 4-50ng	4	✓	50.0	51.1	102.1
p1 Cal 5-100ng	5	✓	100.0	100.5	100.5
p1 Cal 6-250ng	6	✓	250.0	251.3	100.5
p1 Cal 7-500ng	7	✓	500.0	490.3	98.1
p1 Cal 8-1000ng	8	✓	1000.0	999.1	99.9



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte Mitragynine **Internal Standard** Methadone-D9

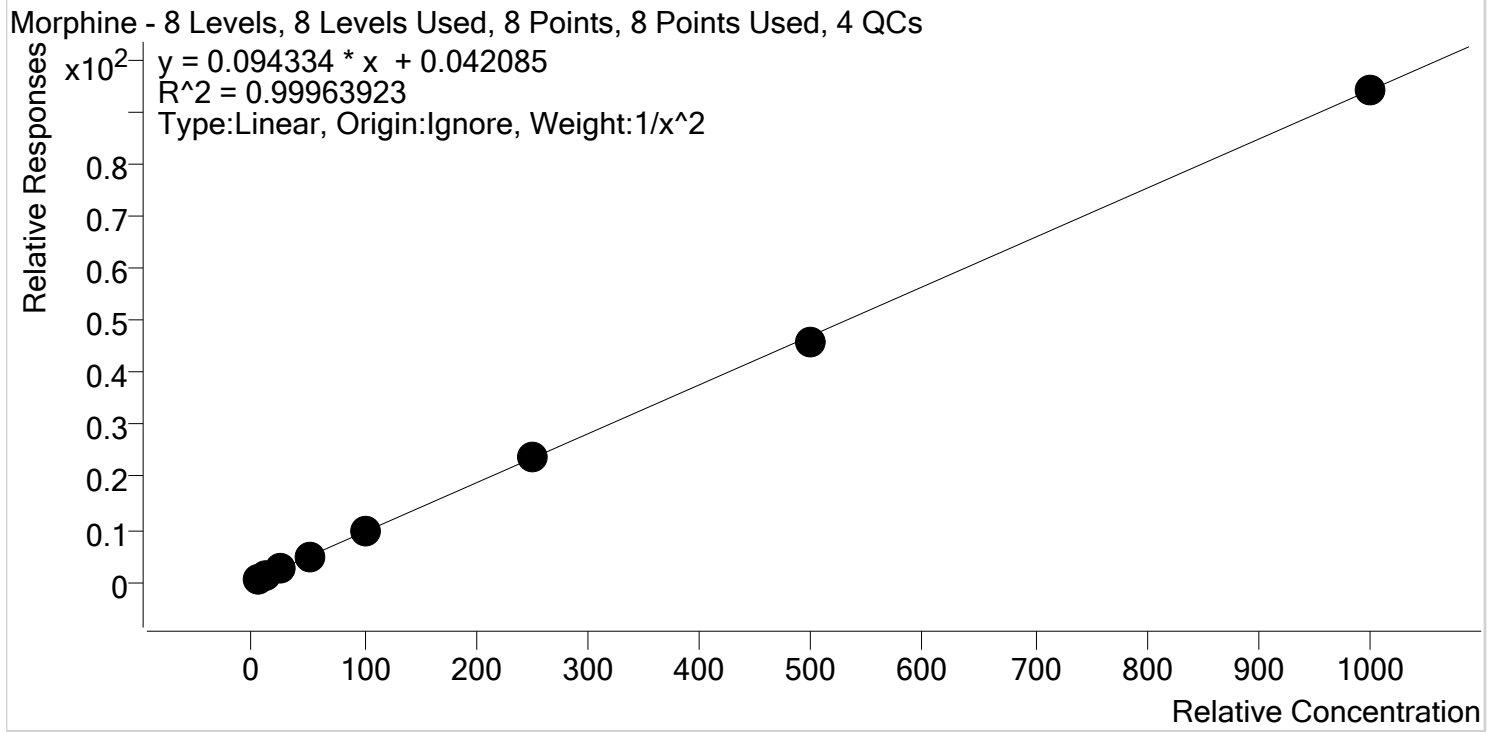


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.0
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.0
p1 Cal 3 -25ng	3	✓	25.0	25.0	100.0
p1 Cal 4-50ng	4	✓	50.0	51.7	103.4
p1 Cal 5-100ng	5	✓	100.0	99.4	99.4
p1 Cal 6-250ng	6	✓	250.0	258.9	103.6
p1 Cal 7-500ng	7	✓	500.0	496.4	99.3
p1 Cal 8-1000ng	8	✓	1000.0	993.9	99.4



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte Morphine **Internal Standard** Morphine-D6

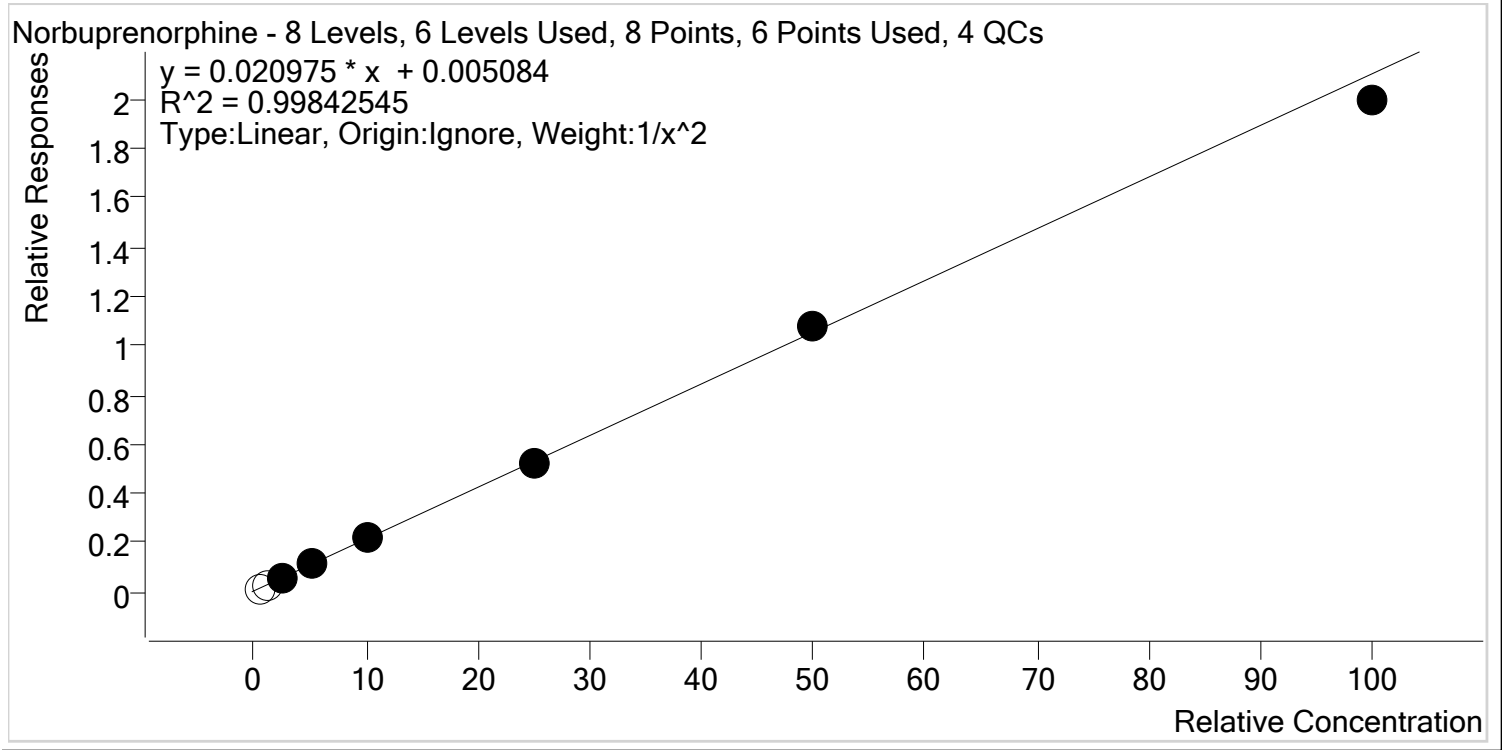


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.5
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.2
p1 Cal 3 -25ng	3	✓	25.0	25.6	102.4
p1 Cal 4-50ng	4	✓	50.0	49.6	99.3
p1 Cal 5-100ng	5	✓	100.0	101.7	101.7
p1 Cal 6-250ng	6	✓	250.0	250.6	100.2
p1 Cal 7-500ng	7	✓	500.0	484.6	96.9
p1 Cal 8-1000ng	8	✓	1000.0	999.1	99.9



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte Norbuprenorphine **Internal Standard** Norbuprenorphine-D3

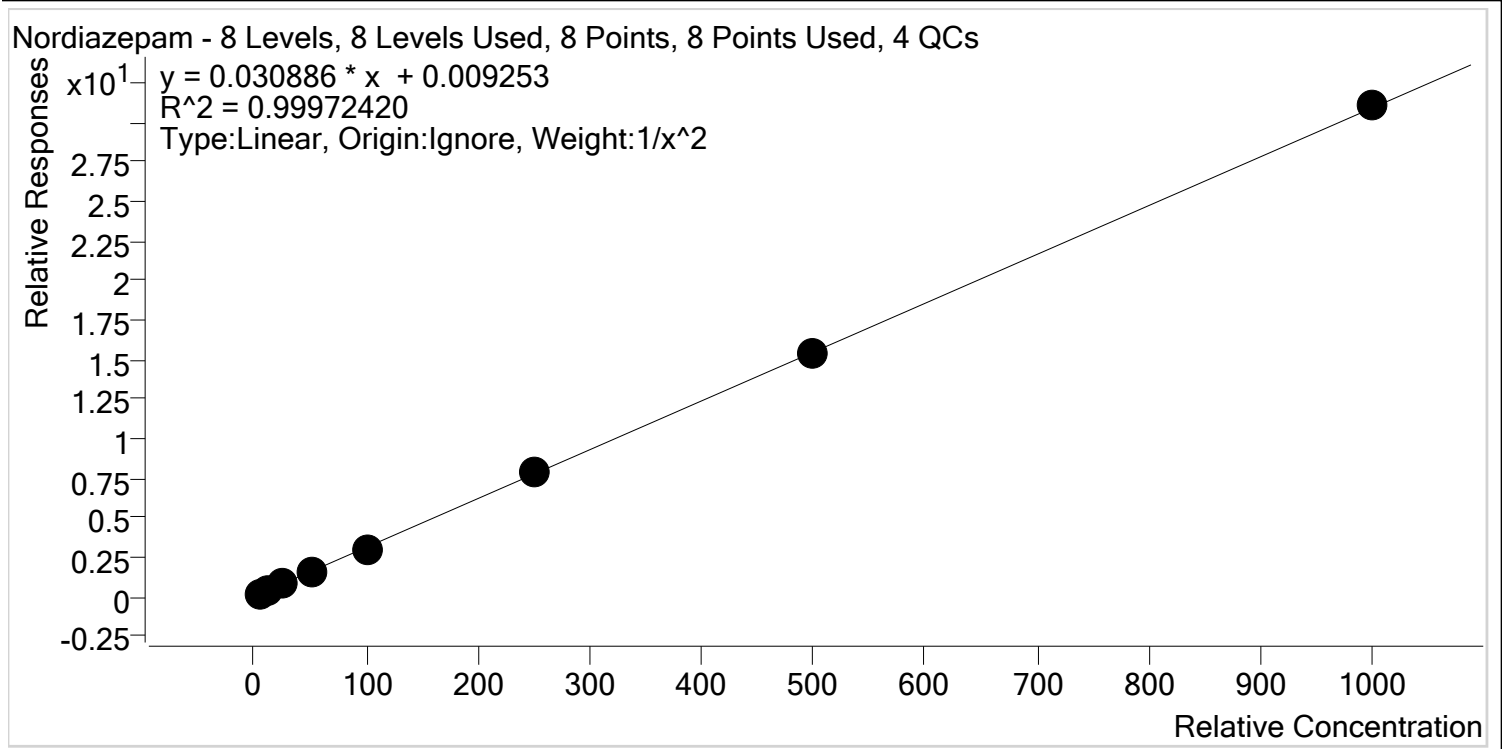


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	x	0.5	0.4	73.7
p1 Cal 2- 10ng	2	x	1.0	0.8	76.3
p1 Cal 3 -25ng	3	✓	2.5	2.5	98.0
p1 Cal 4-50ng	4	✓	5.0	5.1	102.5
p1 Cal 5-100ng	5	✓	10.0	10.3	103.1
p1 Cal 6-250ng	6	✓	25.0	24.9	99.6
p1 Cal 7-500ng	7	✓	50.0	51.0	101.9
p1 Cal 8-1000ng	8	✓	100.0	94.8	94.8



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte Nordiazepam **Internal Standard** Nordiazepam-D5

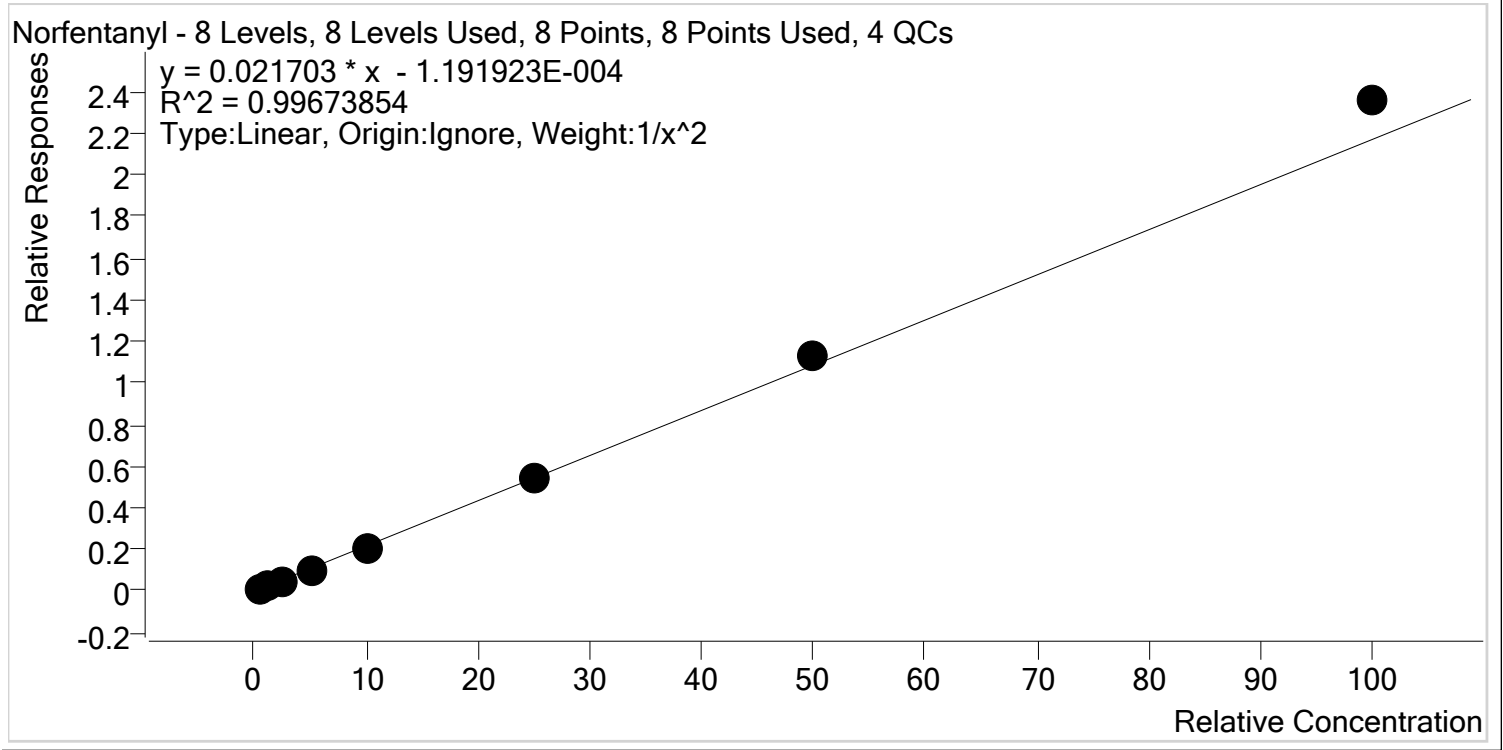


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.1
p1 Cal 2- 10ng	2	✓	10.0	9.7	97.4
p1 Cal 3 -25ng	3	✓	25.0	25.2	100.7
p1 Cal 4-50ng	4	✓	50.0	50.6	101.2
p1 Cal 5-100ng	5	✓	100.0	98.7	98.7
p1 Cal 6-250ng	6	✓	250.0	253.5	101.4
p1 Cal 7-500ng	7	✓	500.0	495.1	99.0
p1 Cal 8-1000ng	8	✓	1000.0	1005.0	100.5



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte Norfentanyl **Internal Standard** Norfentanyl-D5

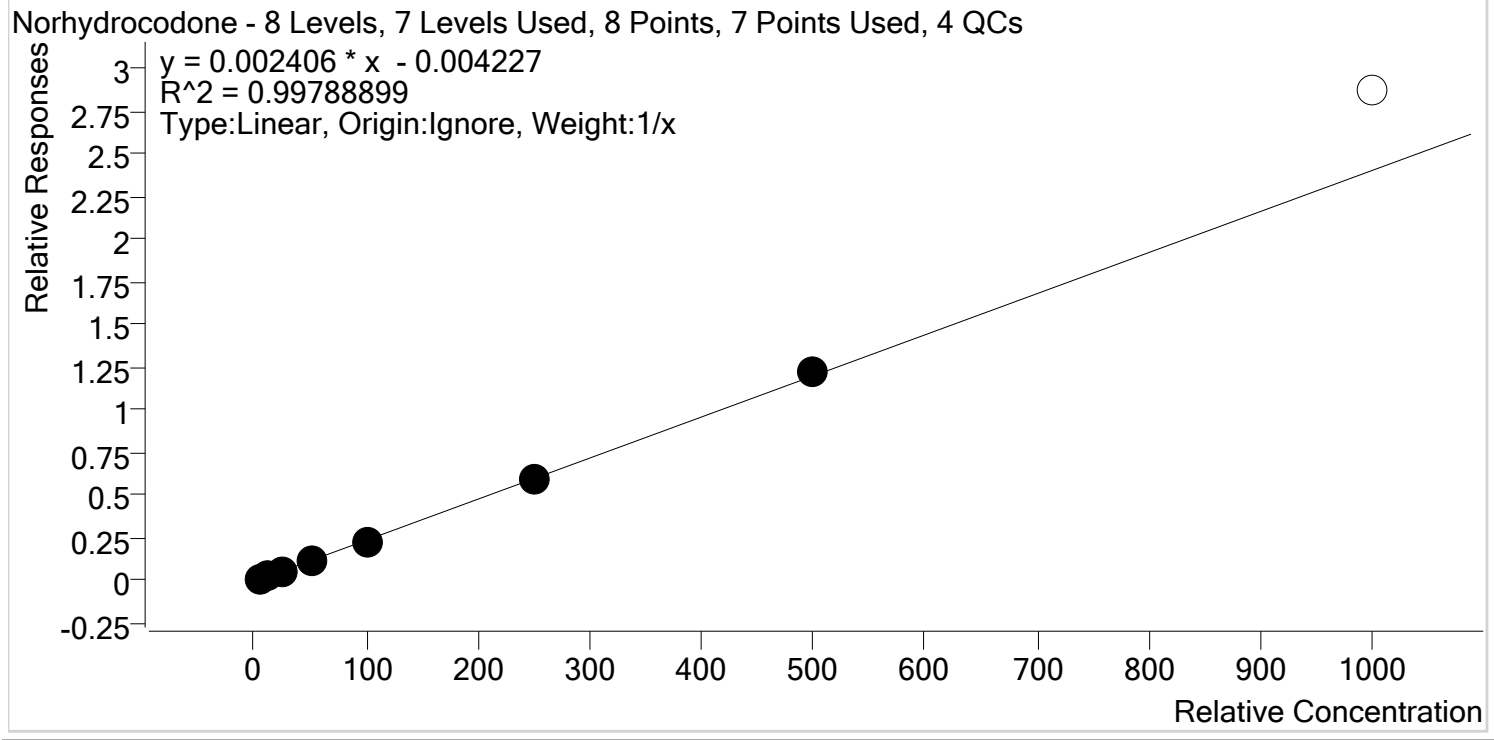


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	103.7
p1 Cal 2- 10ng	2	✓	1.0	1.0	95.5
p1 Cal 3 -25ng	3	✓	2.5	2.4	94.9
p1 Cal 4-50ng	4	✓	5.0	4.9	97.0
p1 Cal 5-100ng	5	✓	10.0	9.6	96.1
p1 Cal 6-250ng	6	✓	25.0	25.1	100.3
p1 Cal 7-500ng	7	✓	50.0	51.9	103.8
p1 Cal 8-1000ng	8	✓	100.0	108.6	108.6



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte Norhydrocodone **Internal Standard** Norhydrocodone-D3

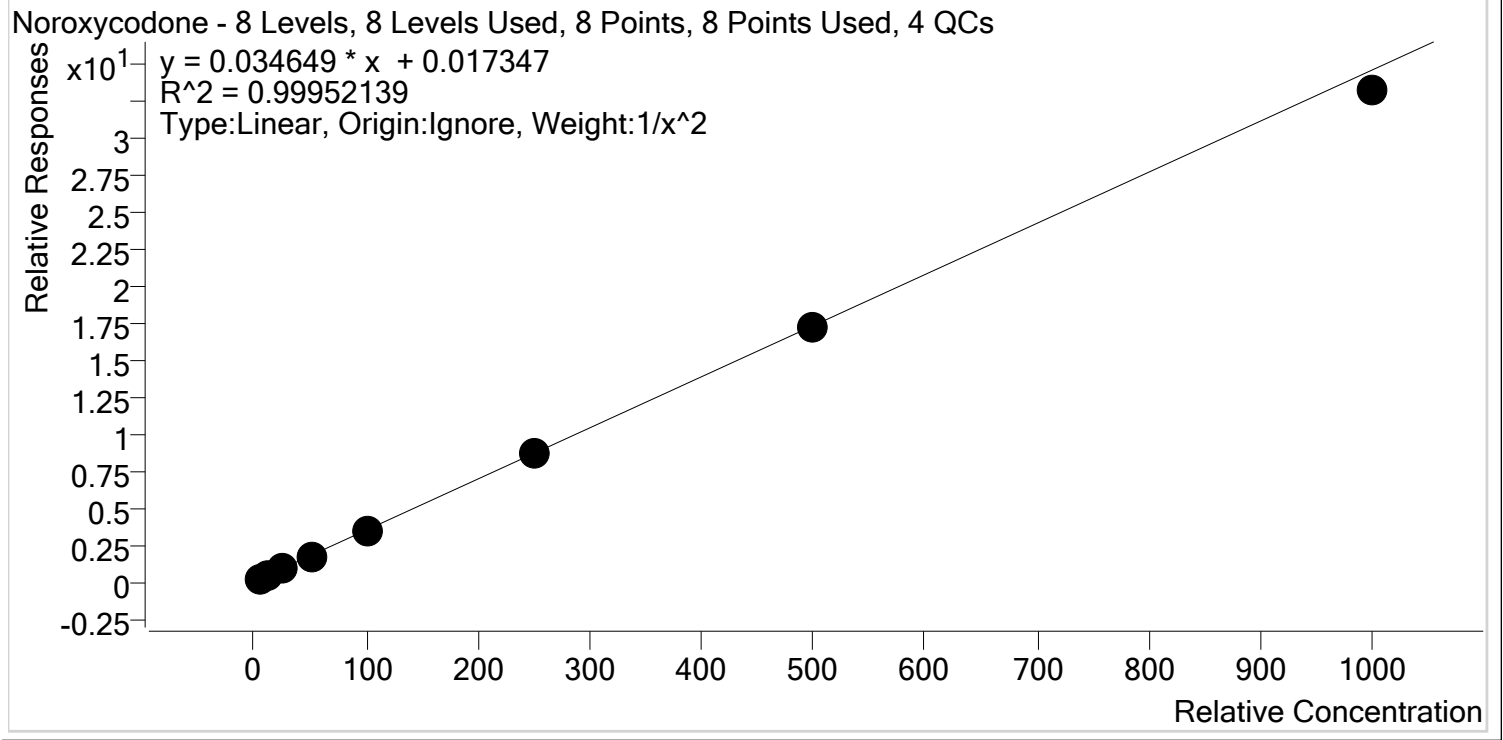


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	6.4	128.1
p1 Cal 2- 10ng	2	✓	10.0	9.5	95.4
p1 Cal 3 -25ng	3	✓	25.0	21.1	84.6
p1 Cal 4-50ng	4	✓	50.0	47.9	95.7
p1 Cal 5-100ng	5	✓	100.0	94.3	94.3
p1 Cal 6-250ng	6	✓	250.0	248.8	99.5
p1 Cal 7-500ng	7	✓	500.0	511.9	102.4
p1 Cal 8-1000ng	8	✗	1000.0	1194.4	119.4



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte Noroxycodone **Internal Standard** Noroxycodone-D3

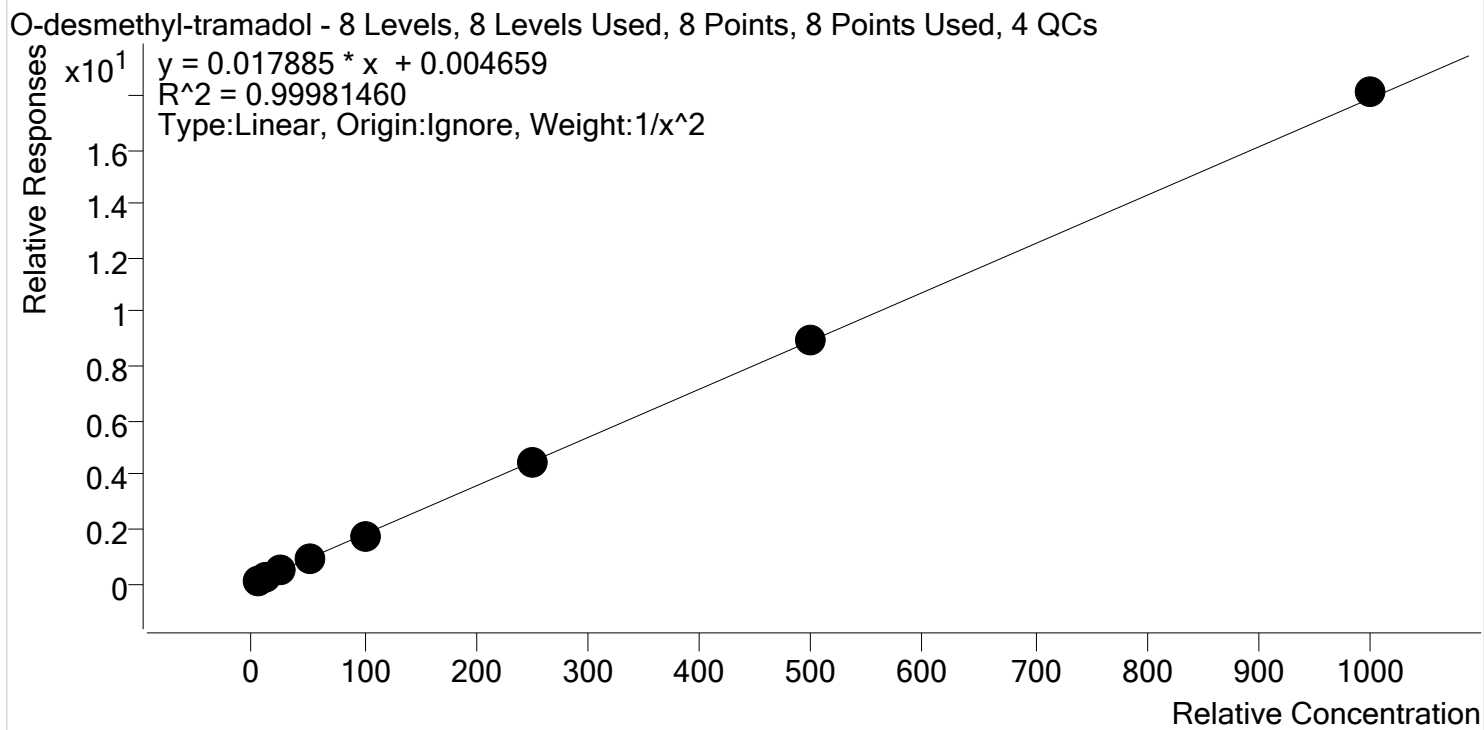


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.9
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.4
p1 Cal 3 -25ng	3	✓	25.0	25.2	100.9
p1 Cal 4-50ng	4	✓	50.0	50.7	101.4
p1 Cal 5-100ng	5	✓	100.0	101.5	101.5
p1 Cal 6-250ng	6	✓	250.0	251.7	100.7
p1 Cal 7-500ng	7	✓	500.0	496.2	99.2
p1 Cal 8-1000ng	8	✓	1000.0	959.7	96.0



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte O-desmethyl-tramadol **Internal Standard** O-desmethyl-tramadol-D6

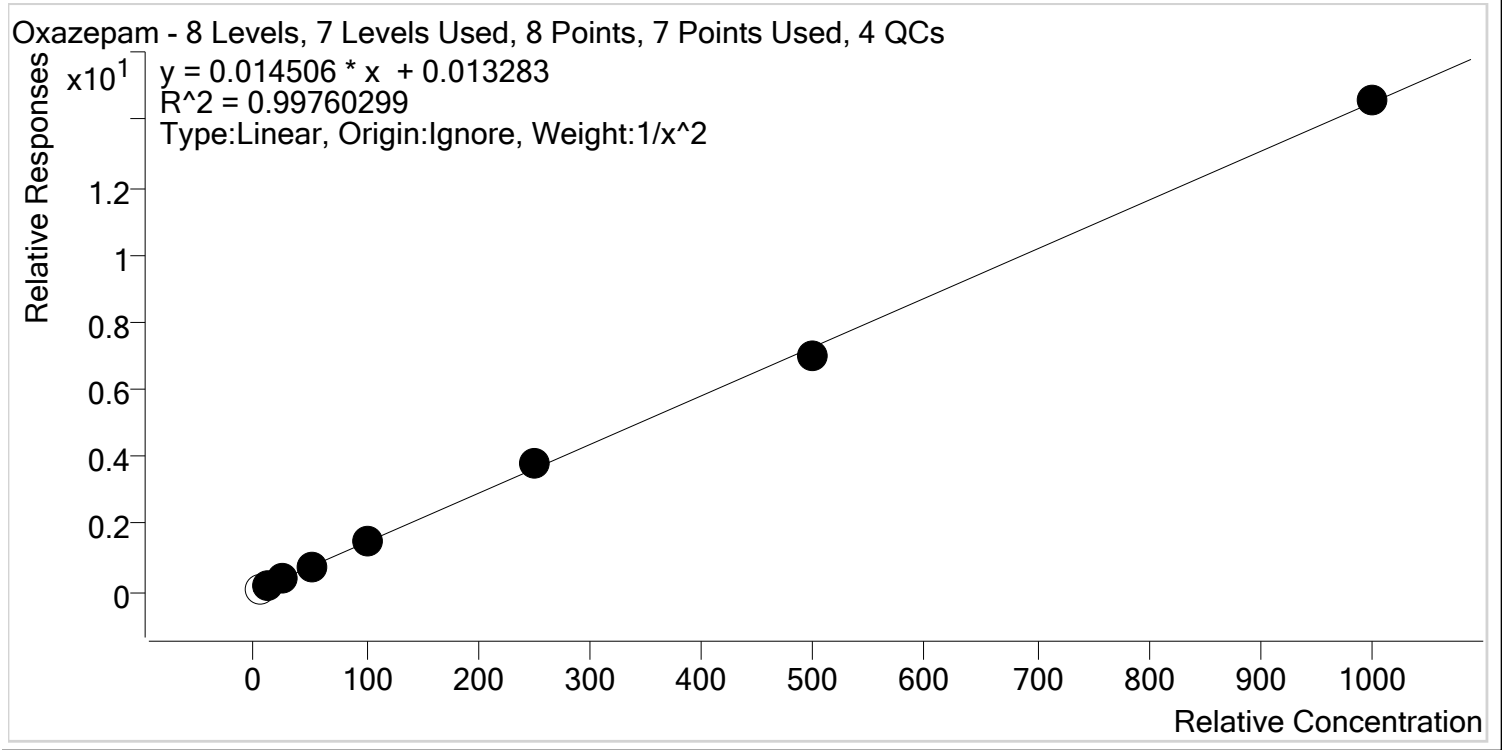


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.8
p1 Cal 2- 10ng	2	✓	10.0	9.9	98.8
p1 Cal 3 -25ng	3	✓	25.0	24.8	99.2
p1 Cal 4-50ng	4	✓	50.0	50.4	100.9
p1 Cal 5-100ng	5	✓	100.0	98.1	98.1
p1 Cal 6-250ng	6	✓	250.0	249.9	100.0
p1 Cal 7-500ng	7	✓	500.0	505.0	101.0
p1 Cal 8-1000ng	8	✓	1000.0	1013.1	101.3



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte Oxazepam **Internal Standard** Oxazepam-D5

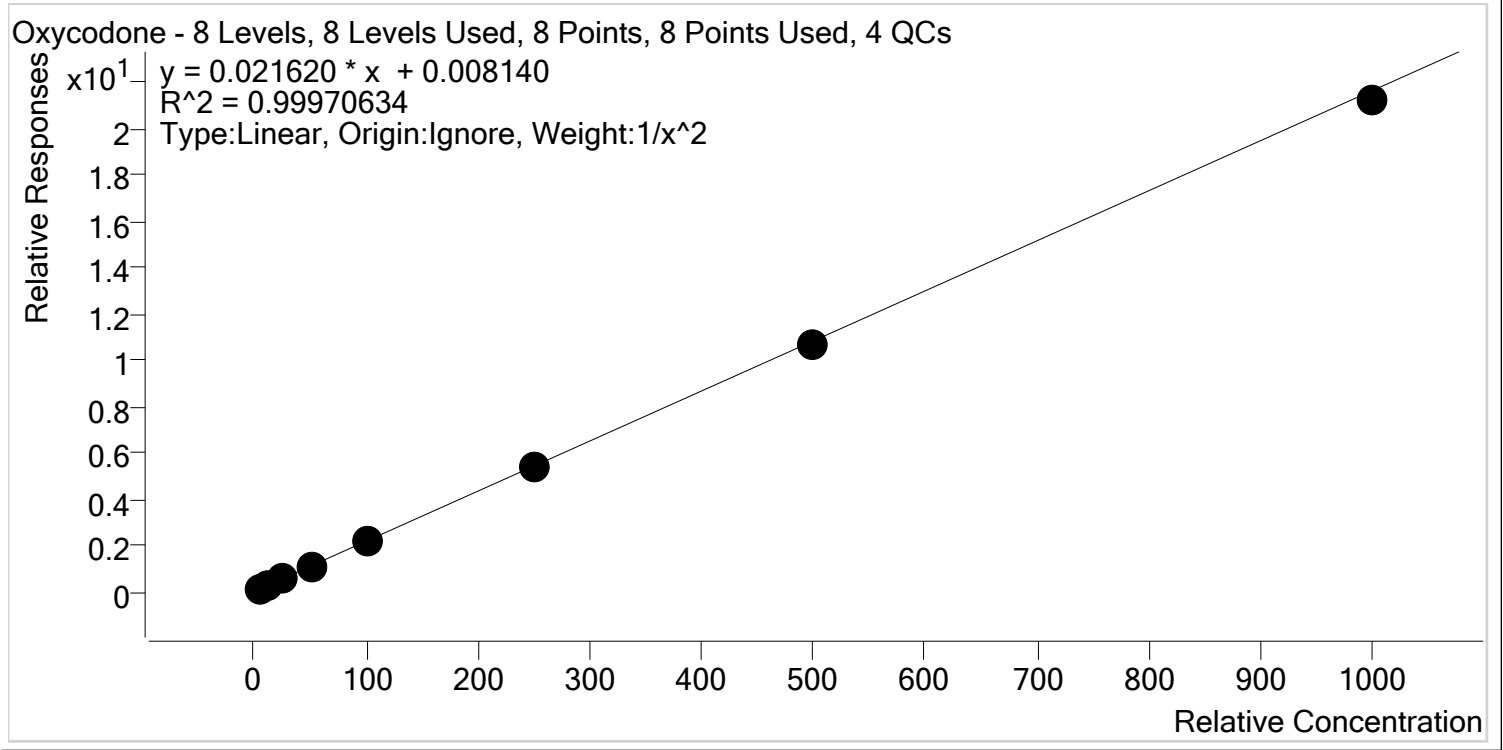


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	x	5.0	5.1	101.5
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.9
p1 Cal 3 -25ng	3	✓	25.0	23.3	93.3
p1 Cal 4-50ng	4	✓	50.0	51.8	103.7
p1 Cal 5-100ng	5	✓	100.0	99.0	99.0
p1 Cal 6-250ng	6	✓	250.0	263.5	105.4
p1 Cal 7-500ng	7	✓	500.0	481.4	96.3
p1 Cal 8-1000ng	8	✓	1000.0	1004.1	100.4



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte Oxycodone **Internal Standard** Oxycodone-D6



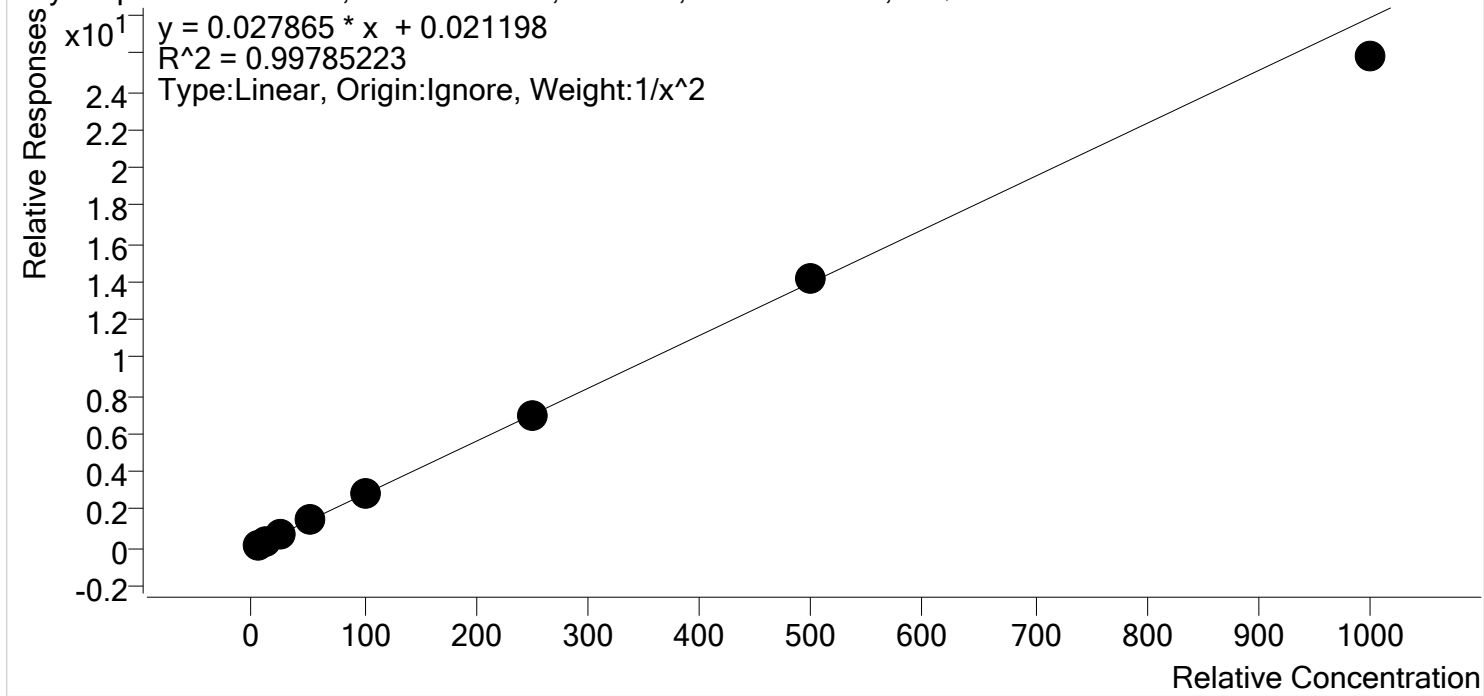
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.5
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.2
p1 Cal 3 -25ng	3	✓	25.0	25.2	100.9
p1 Cal 4-50ng	4	✓	50.0	51.5	103.0
p1 Cal 5-100ng	5	✓	100.0	99.5	99.5
p1 Cal 6-250ng	6	✓	250.0	250.1	100.0
p1 Cal 7-500ng	7	✓	500.0	494.6	98.9
p1 Cal 8-1000ng	8	✓	1000.0	980.2	98.0



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte Oxymorphone **Internal Standard** Oxymorphone-D3

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

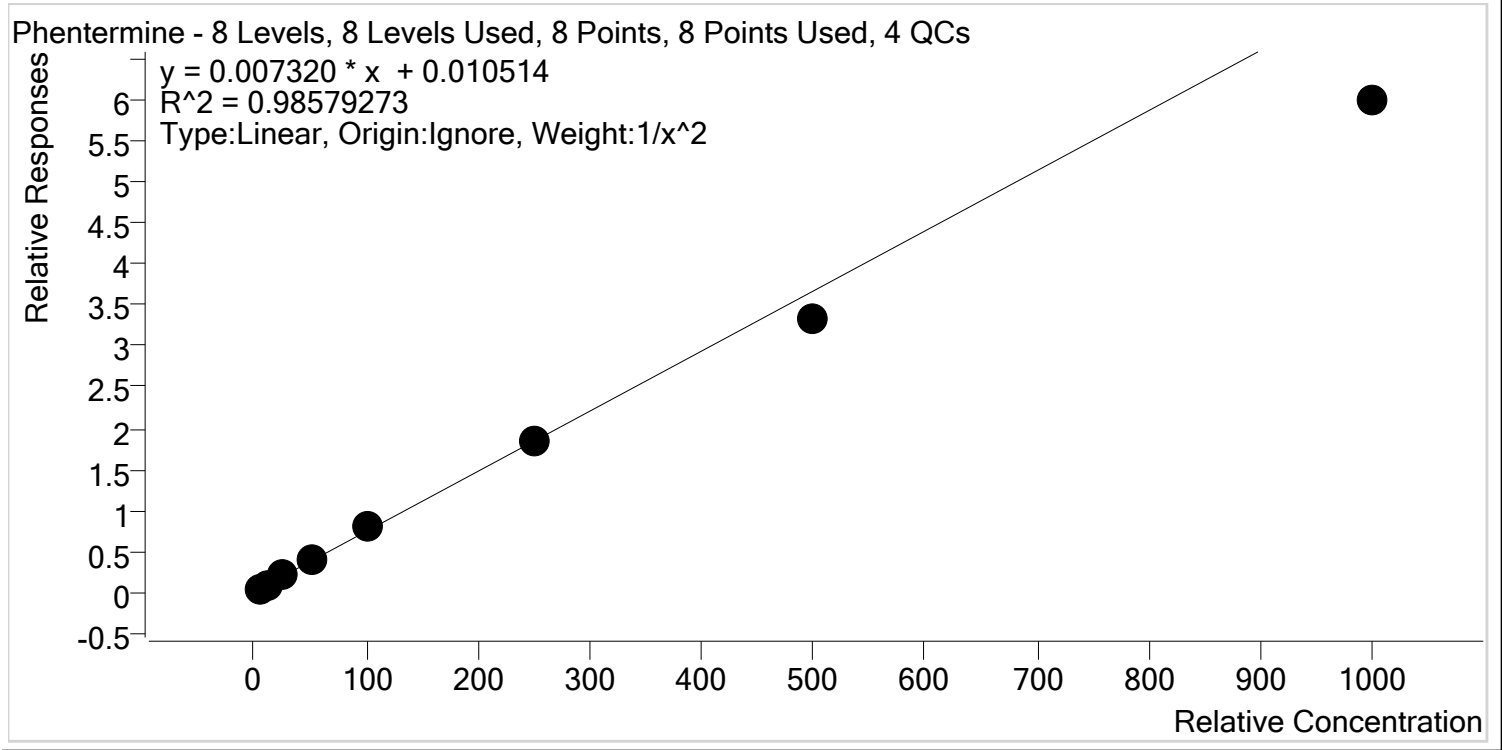


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.9
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.4
p1 Cal 3 -25ng	3	✓	25.0	24.2	96.6
p1 Cal 4-50ng	4	✓	50.0	51.6	103.2
p1 Cal 5-100ng	5	✓	100.0	105.3	105.3
p1 Cal 6-250ng	6	✓	250.0	248.3	99.3
p1 Cal 7-500ng	7	✓	500.0	508.4	101.7
p1 Cal 8-1000ng	8	✓	1000.0	926.4	92.6



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte Phentermine **Internal Standard** Phentermine-D5

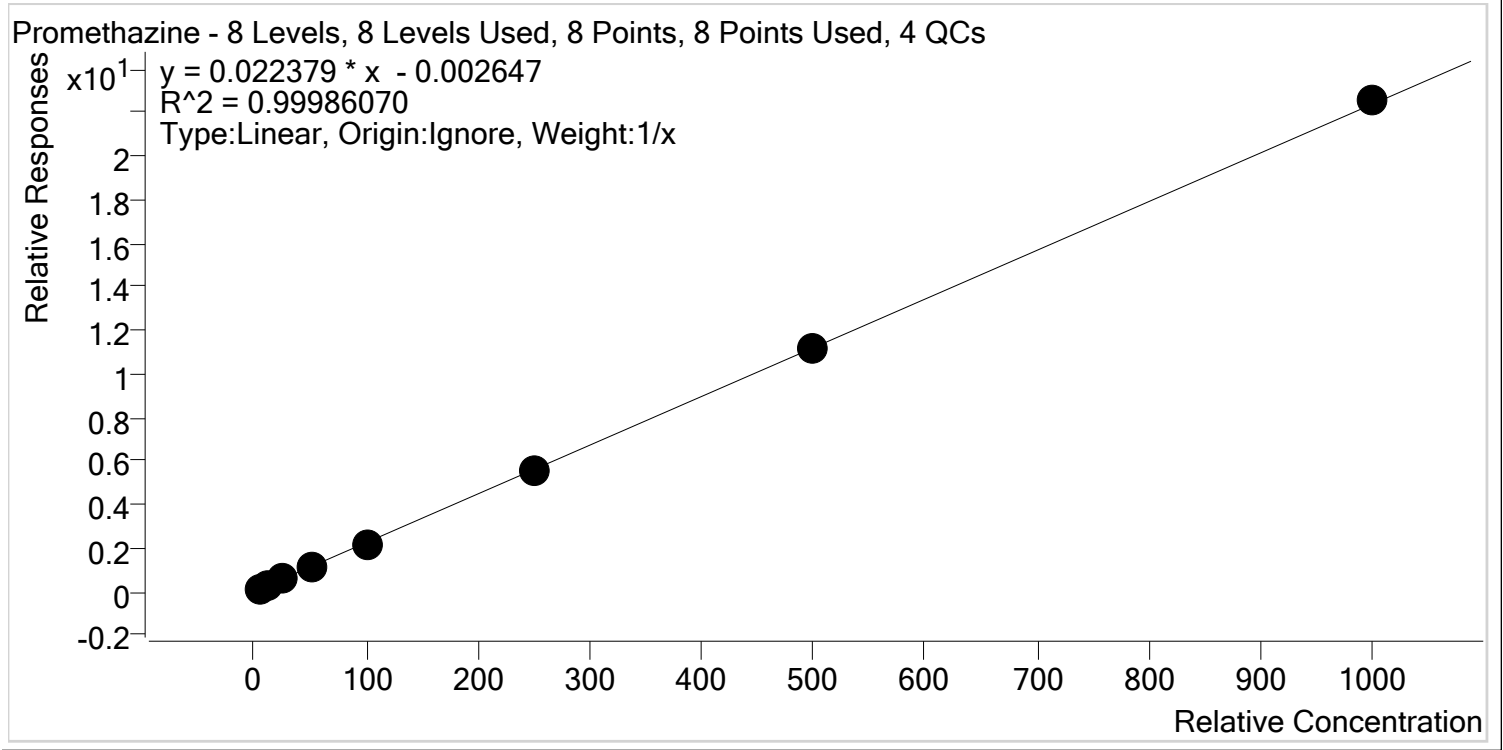


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	94.2
p1 Cal 2- 10ng	2	✓	10.0	10.5	104.8
p1 Cal 3 -25ng	3	✓	25.0	27.6	110.4
p1 Cal 4-50ng	4	✓	50.0	56.0	112.0
p1 Cal 5-100ng	5	✓	100.0	105.9	105.9
p1 Cal 6-250ng	6	✓	250.0	250.0	100.0
p1 Cal 7-500ng	7	✓	500.0	455.2	91.0
p1 Cal 8-1000ng	8	✓	1000.0	816.8	81.7



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte Promethazine **Internal Standard** Promethazine-D3

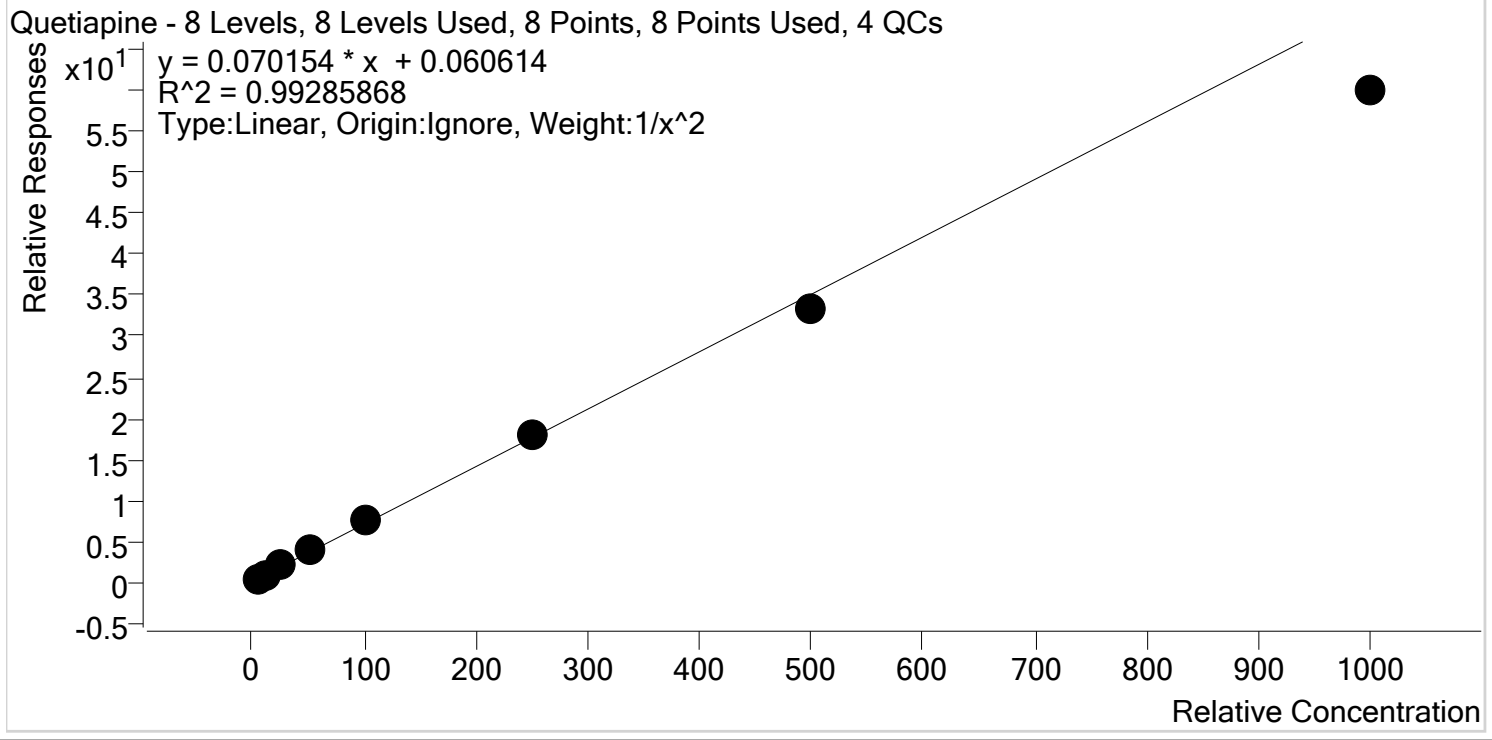


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.3	105.9
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.0
p1 Cal 3 -25ng	3	✓	25.0	24.7	98.8
p1 Cal 4-50ng	4	✓	50.0	49.8	99.6
p1 Cal 5-100ng	5	✓	100.0	96.4	96.4
p1 Cal 6-250ng	6	✓	250.0	246.9	98.7
p1 Cal 7-500ng	7	✓	500.0	499.4	99.9
p1 Cal 8-1000ng	8	✓	1000.0	1007.6	100.8



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte Quetiapine **Internal Standard** Quetiapine-D8

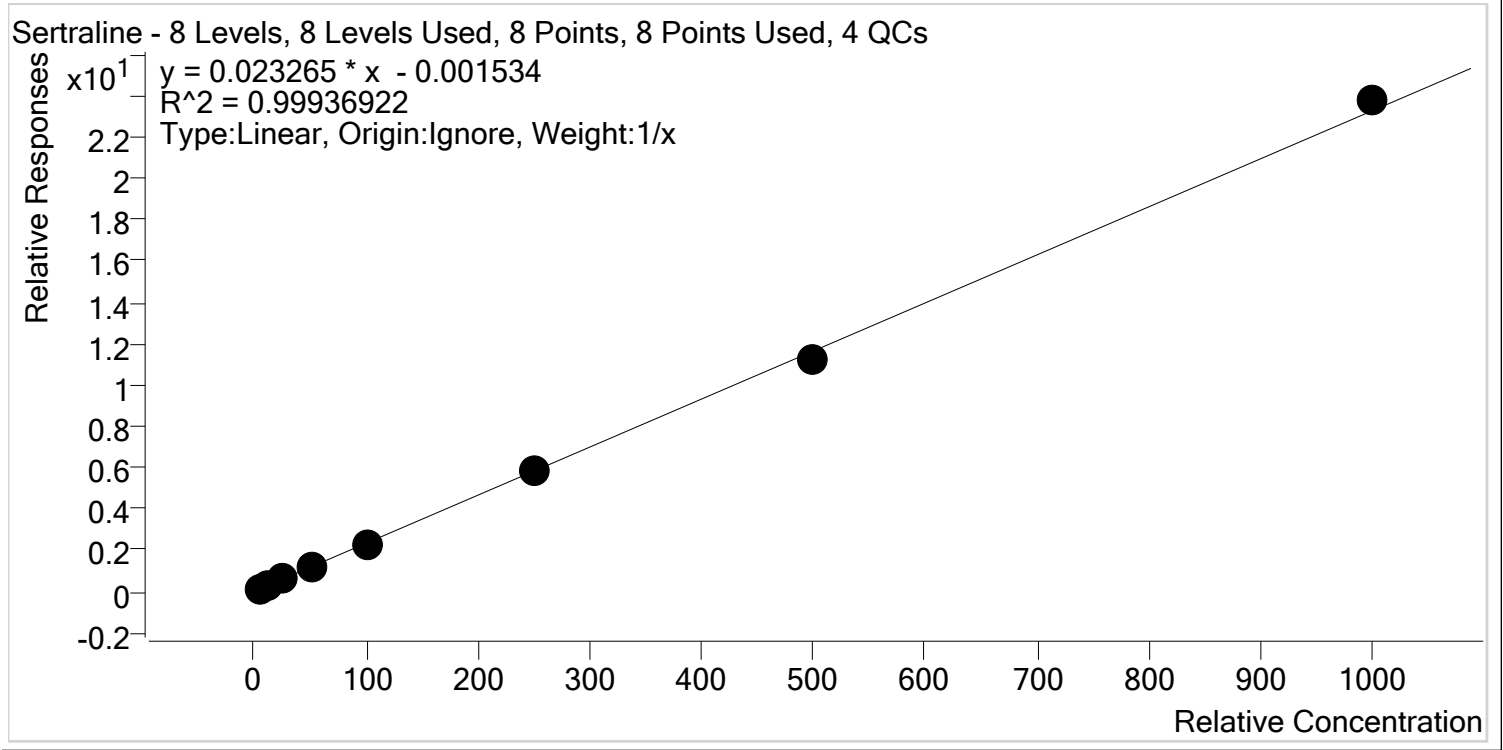


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.7
p1 Cal 2- 10ng	2	✓	10.0	10.5	104.7
p1 Cal 3 -25ng	3	✓	25.0	26.4	105.7
p1 Cal 4-50ng	4	✓	50.0	53.4	106.8
p1 Cal 5-100ng	5	✓	100.0	105.1	105.1
p1 Cal 6-250ng	6	✓	250.0	252.6	101.0
p1 Cal 7-500ng	7	✓	500.0	477.3	95.5
p1 Cal 8-1000ng	8	✓	1000.0	854.7	85.5



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte Sertraline **Internal Standard** Sertraline-D3

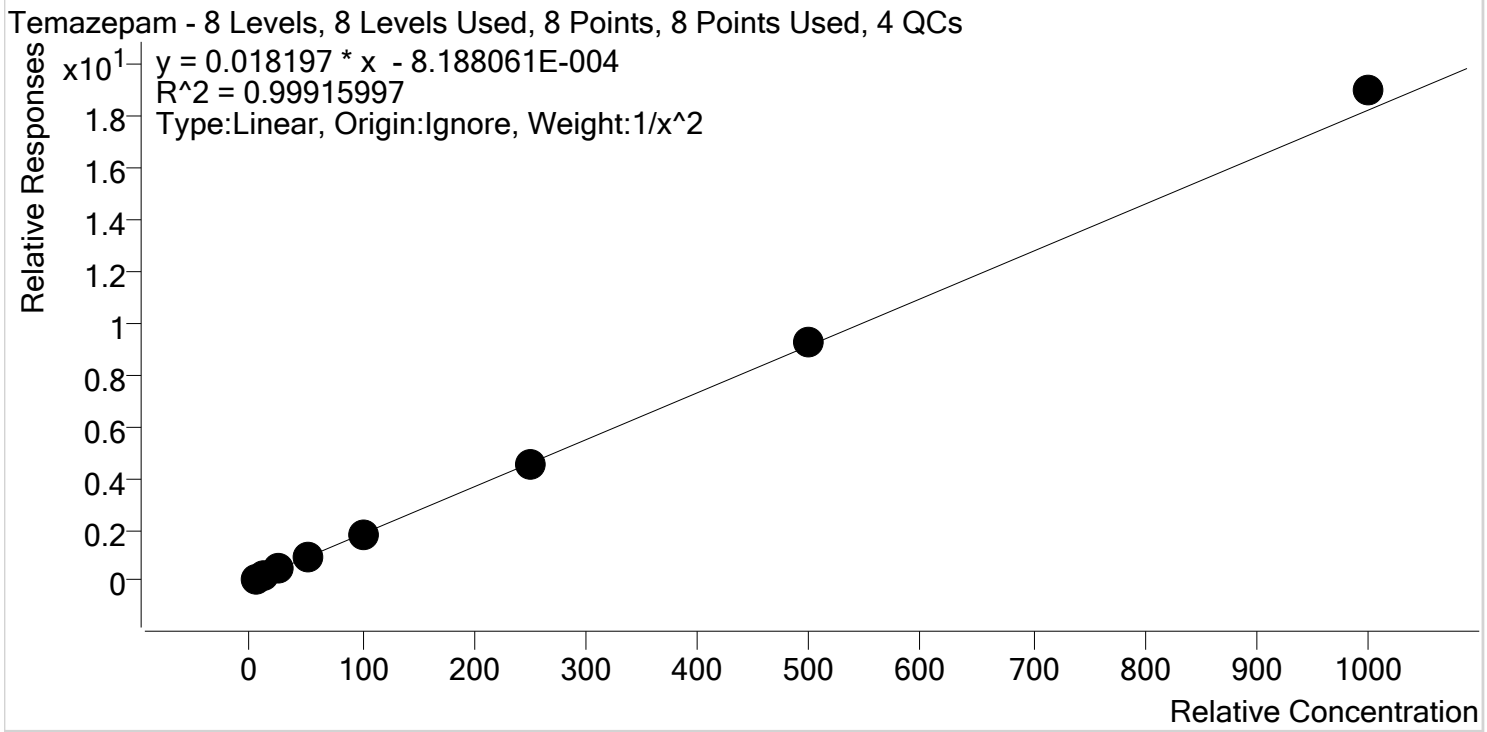


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.2	104.8
p1 Cal 2- 10ng	2	✓	10.0	10.3	102.8
p1 Cal 3 -25ng	3	✓	25.0	24.2	96.7
p1 Cal 4-50ng	4	✓	50.0	50.0	100.1
p1 Cal 5-100ng	5	✓	100.0	97.7	97.7
p1 Cal 6-250ng	6	✓	250.0	247.8	99.1
p1 Cal 7-500ng	7	✓	500.0	483.5	96.7
p1 Cal 8-1000ng	8	✓	1000.0	1021.3	102.1



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte Temazepam **Internal Standard** Temazepam-D5

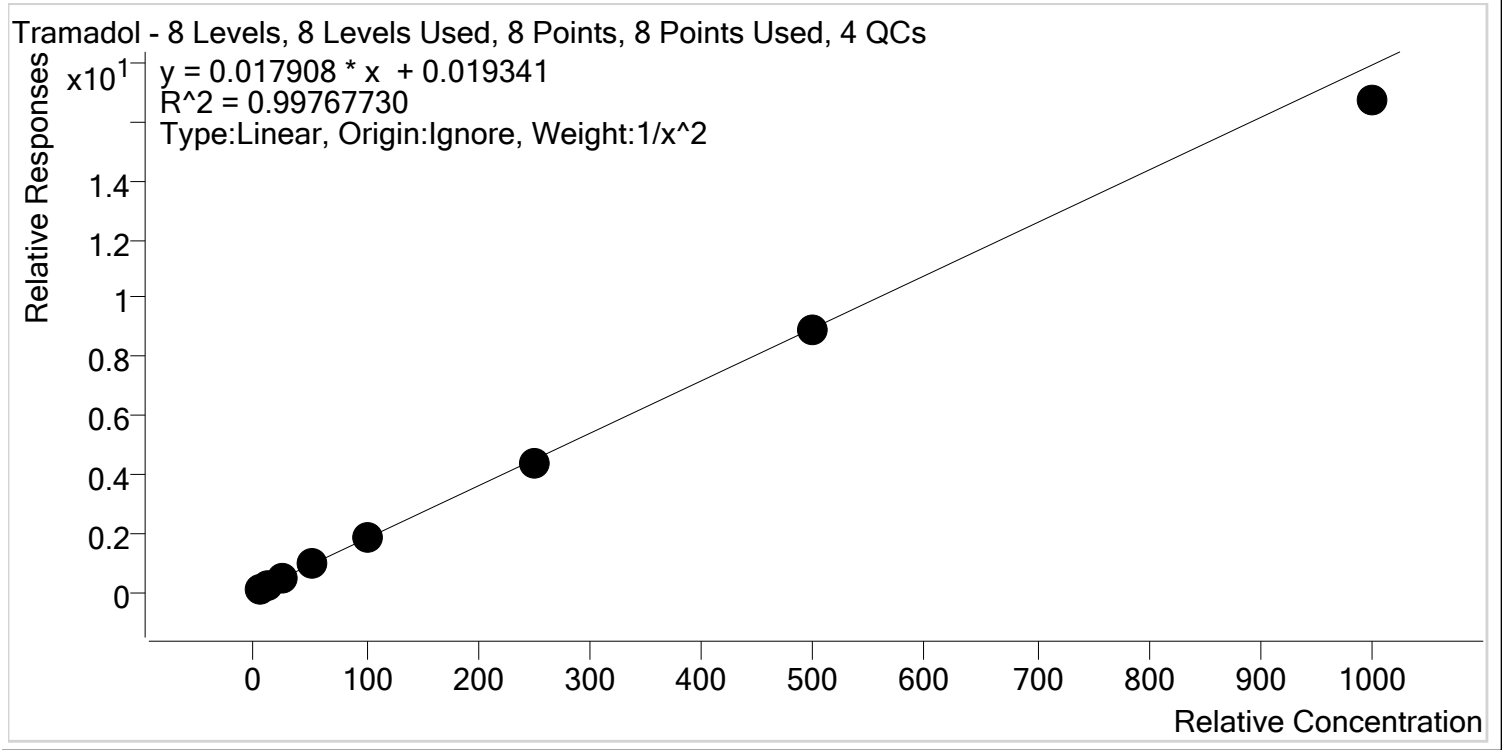


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.5
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.1
p1 Cal 3 -25ng	3	✓	25.0	24.1	96.5
p1 Cal 4-50ng	4	✓	50.0	48.7	97.4
p1 Cal 5-100ng	5	✓	100.0	98.7	98.7
p1 Cal 6-250ng	6	✓	250.0	248.8	99.5
p1 Cal 7-500ng	7	✓	500.0	511.1	102.2
p1 Cal 8-1000ng	8	✓	1000.0	1041.5	104.1



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte Tramadol **Internal Standard** Tramadol-13C-D3

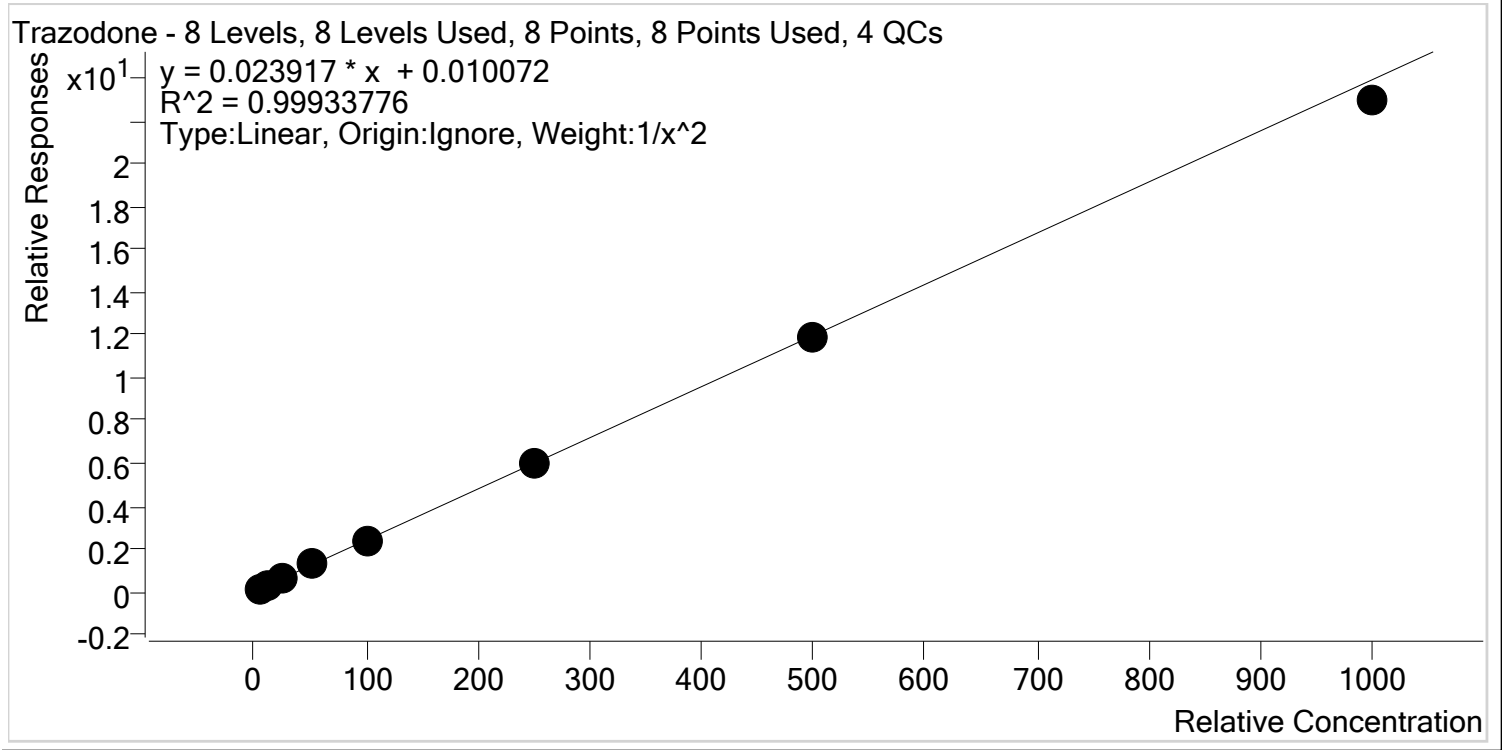


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.8
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.4
p1 Cal 3 -25ng	3	✓	25.0	26.2	104.9
p1 Cal 4-50ng	4	✓	50.0	52.9	105.7
p1 Cal 5-100ng	5	✓	100.0	101.3	101.3
p1 Cal 6-250ng	6	✓	250.0	241.8	96.7
p1 Cal 7-500ng	7	✓	500.0	494.9	99.0
p1 Cal 8-1000ng	8	✓	1000.0	932.3	93.2



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte Trazodone **Internal Standard** Trazodone-D6

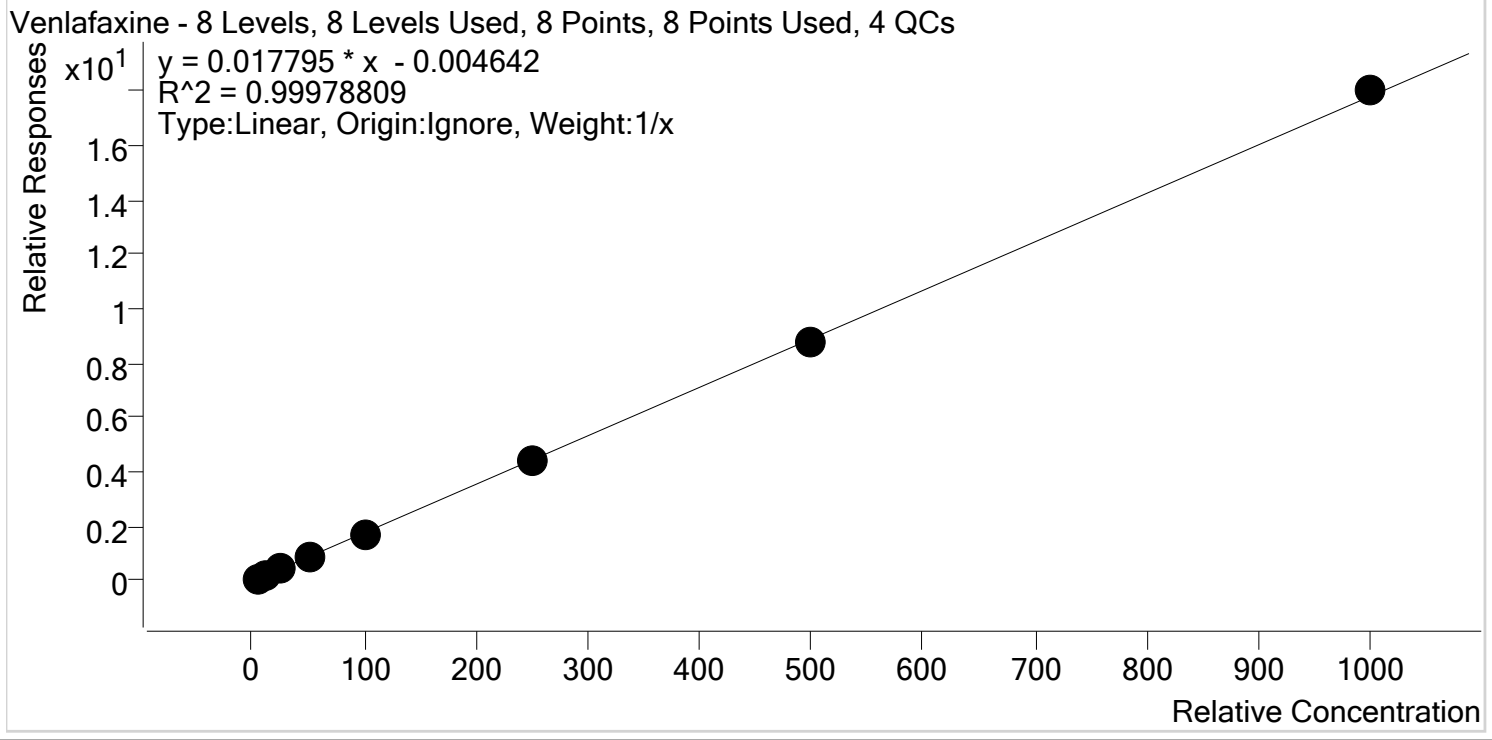


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.4
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.3
p1 Cal 3 -25ng	3	✓	25.0	25.1	100.2
p1 Cal 4-50ng	4	✓	50.0	52.1	104.1
p1 Cal 5-100ng	5	✓	100.0	100.1	100.1
p1 Cal 6-250ng	6	✓	250.0	251.6	100.7
p1 Cal 7-500ng	7	✓	500.0	496.5	99.3
p1 Cal 8-1000ng	8	✓	1000.0	959.3	95.9



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte Venlafaxine **Internal Standard** Venlafaxine-D6

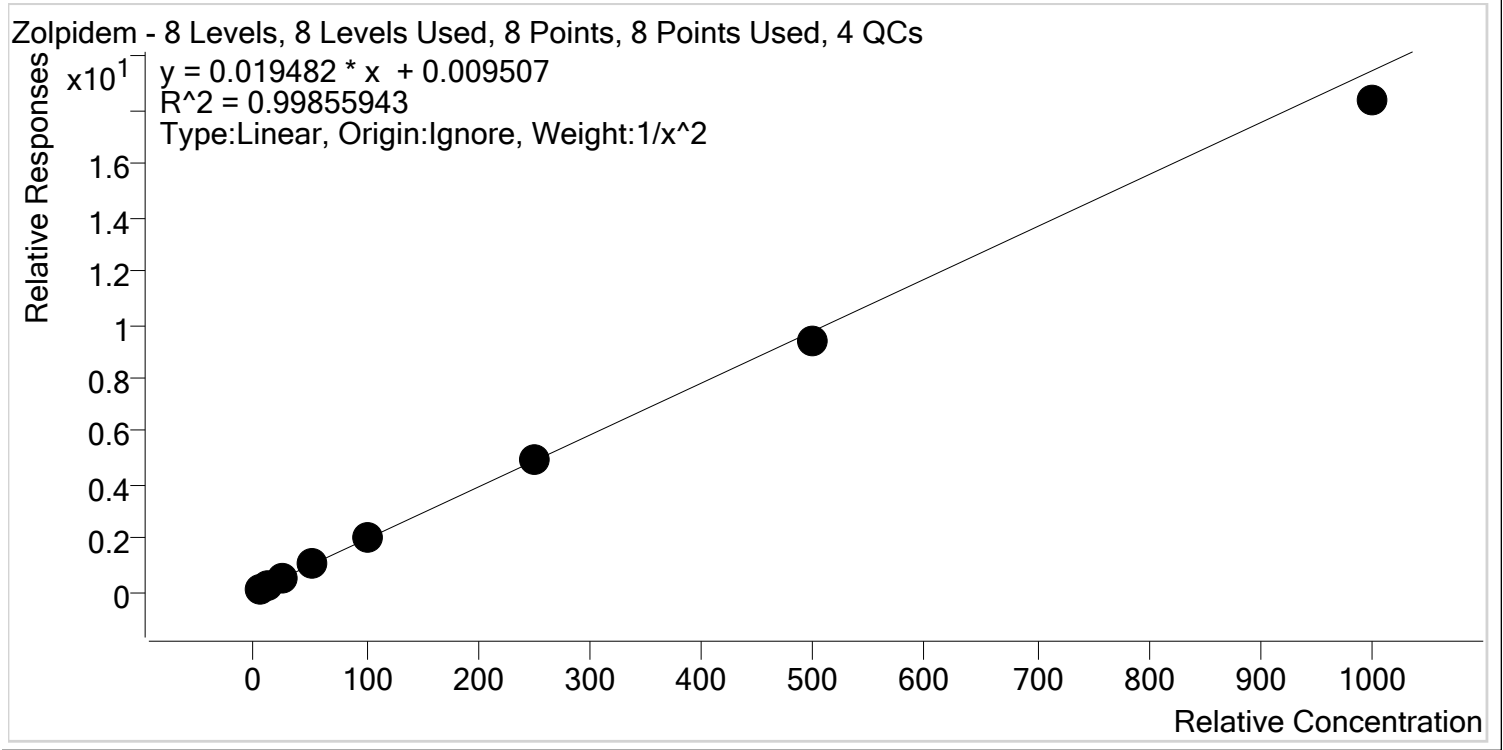


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.3	106.3
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.9
p1 Cal 3 -25ng	3	✓	25.0	24.2	96.9
p1 Cal 4-50ng	4	✓	50.0	49.4	98.9
p1 Cal 5-100ng	5	✓	100.0	97.5	97.5
p1 Cal 6-250ng	6	✓	250.0	245.5	98.2
p1 Cal 7-500ng	7	✓	500.0	495.8	99.2
p1 Cal 8-1000ng	8	✓	1000.0	1012.0	101.2



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 10/18/2019 9:51 AM
Analyst Name ISP\datastor
Analyte Zolpidem **Internal Standard** Zolpidem-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.9
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.3
p1 Cal 3 -25ng	3	✓	25.0	25.6	102.5
p1 Cal 4-50ng	4	✓	50.0	52.3	104.6
p1 Cal 5-100ng	5	✓	100.0	101.3	101.3
p1 Cal 6-250ng	6	✓	250.0	253.7	101.5
p1 Cal 7-500ng	7	✓	500.0	483.8	96.8
p1 Cal 8-1000ng	8	✓	1000.0	942.5	94.3

AM #28 Multi-Drug Quant. Results



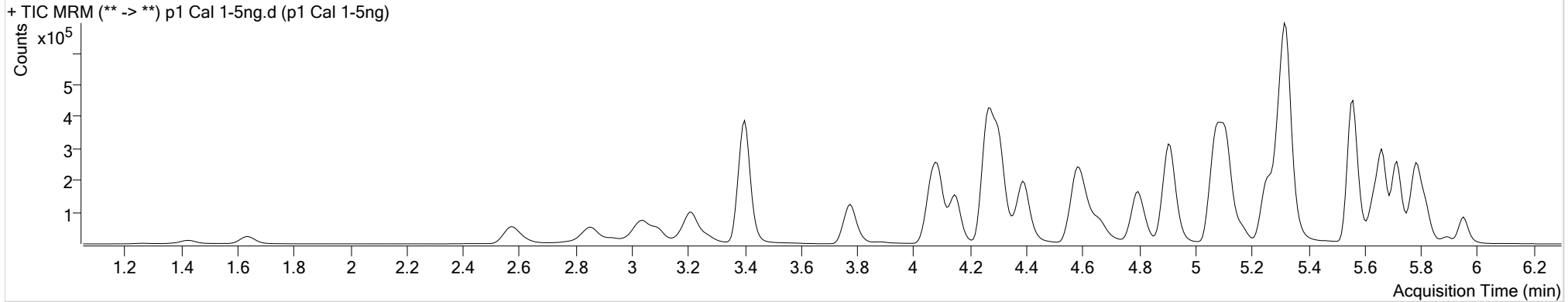
Batch results
Calibration Last Update

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10/18/2019 9:51:56 AM

Instrument Falco
Type Cal
Acq. Method MDQ P1 Combined 092319.m
Sample Position P2-A5
Injection Volume 2
Acq. Date-Time 10/17/2019 1:11:51 PM
Sample Info.

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

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.170	908	1740.50	69.2	972.08	30479	0.5161 ng/ml
7-aminoclonazepam	4.285	10657	∞	82.4	2355.86	79149	4.7769 ng/ml
a-hydroxyalprazolam	5.707	879	77.67	60.8	∞	7761	6.1242 ng/ml
alpha-PVP	4.404	60572	16390.57	50.5	1572.88	521143	5.2137 ng/ml
Alprazolam	5.784	21403	356.57	107.7	203.80	96428	5.1171 ng/ml
Amphetamine	3.095	71996	2170.57	55.1	∞	123252	4.7718 ng/ml
Benzoylcegonine	3.907	1595	139.97	6.0	16.05	10448	5.0734 ng/ml
Buprenorphine	5.835	3077	82.79	16.1	184.34	176878	0.5195 ng/ml
Bupropion	4.813	70812	194169.62	59.0	3552.40	429275	4.7561 ng/ml
Carisoprodol	5.733	12905	273.56	53.8	121.11	122608	5.0592 ng/ml
Citalopram	5.256	49855	686.17	42.3	40071.01	449745	5.1304 ng/ml
Clonazepam	5.620	3734	1039.11	31.8	226.92	13715	4.8137 ng/ml
Cocaine	4.304	56708	99509.41	44.7	3430.65	826075	5.2570 ng/ml
Codeine	2.630	5760	64.64	103.8	12311.85	46587	4.0487 ng/ml
Cyclobenzaprine	5.637	39130	6523.71	9.9	184.76	277961	5.0646 ng/ml
Dextromethorphan	5.306	30589	2164.95	80.0	∞	270308	5.0182 ng/ml
Dextrorphan	4.154	13564	57992.21	215.9	2255.96	376829	5.1014 ng/ml
Diazepam	5.961	17812	546.31	87.4	545.61	165856	5.0105 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.608	15309	12327.69	68.2	2625.27	162756	4.7674 ng/ml
Diphenhydramine	5.327	104839	∞	32.0	∞	1665427	5.2707 ng/ml
Doxylamine	4.601	119796	30785.41	97.1	∞	917193	4.9467 ng/ml
EDDP	5.291	27897	416.37	42.8	∞	304900	5.0360 ng/ml
Fentanyl	5.120	3565	7668.28	72.7	258.57	389787	0.5128 ng/ml
Fluoxetine	5.716	47933	1091.54	9.4	18358.59	404083	5.0126 ng/ml
Hydrocodone	3.065	13256	221.63	38.9	39.21	169501	4.8861 ng/ml
Hydromorphone	1.648	10120	524.99	76.3	210.58	69511	5.0447 ng/ml
Ketamine	4.074	47094	3021.04	37.0	982.51	402252	4.9146 ng/ml
Lamotrigine	4.308	4388	801.14	83.2	2469.68	402252	4.7783 ng/ml
Lorazepam	5.755	1344	19.89	46.4	6.15 Low	13715	5.2731 ng/ml
Meprobamate	4.929	2629	208.10	25.2	32.65	28529	4.7885 ng/ml
Methadone	5.668	62734	3250.29	51.1	520.59	527635	5.4531 ng/ml
Methamphetamine	3.269	42668	130.19	42.1	855.25	361296	4.8586 ng/ml
Metoprolol	4.354	11515	∞	98.5	1471.61	997255	4.7562 ng/ml
Mirtazapine	4.664	93605	∞	50.0	5421.16	521143	5.0052 ng/ml
Mitragynine	5.254	13216	∞	38.7	13838.79	527635	4.7984 ng/ml
Morphine	1.273	1822	702.81	21.8	212.18	3564	4.9729 ng/ml
Norbuprenorphine	5.037	61	13.74	62.0	130.70	4732	0.3683 ng/ml
Nordiazepam	5.901	4946	∞	54.8	441.61	29917	5.0535 ng/ml
Norfentanyl	4.115	5919	1052.82	41.8	123.16	531784	0.5184 ng/ml
Norhydrocodone	3.106	398	∞	35.6	∞	35587	6.4045 ng/ml
Noroxycodone	2.957	9428	402.92	47.7	191.77	49945	4.9473 ng/ml
O-desmethyl-tramadol	3.408	101896	3174.27	6.3	325.10	1075309	5.0377 ng/ml
Oxazepam	5.758	1551	32.74	73.2	4.43 Low	17850	5.0754 ng/ml
Oxycodone	2.881	24848	1208.53	31.0	1119.37	214831	4.9734 ng/ml
Oxymorphone	1.430	5982	129.90	47.2	71.29	37611	4.9469 ng/ml
Phentermine	3.812	18243	∞	2.3	6.73 Low	405476	4.7100 ng/ml
Promethazine	5.562	100958	4439.11	30.2	∞	871781	5.2931 ng/ml
Quetiapine	5.571	65759	58540.51	61.3	57288.64	165989	4.7830 ng/ml
Sertraline	5.791	34273	595.25	90.6	1461.22	284651	5.2413 ng/ml
Temazepam	5.825	16482	476.32	36.7	28.81	181966	5.0226 ng/ml
Tramadol	4.274	106619	675.20	3.3	18.58	997255	4.8901 ng/ml
Trazodone	5.167	66837	20423.34	77.9	∞	518300	4.9706 ng/ml
Venlafaxine	5.074	77266	6165.45	36.4	151.46	859219	5.3142 ng/ml
Zolpidem	4.925	92934	7857.83	31.2	4643.50	878308	4.9431 ng/ml

AM #28 Multi-Drug Quant. Results



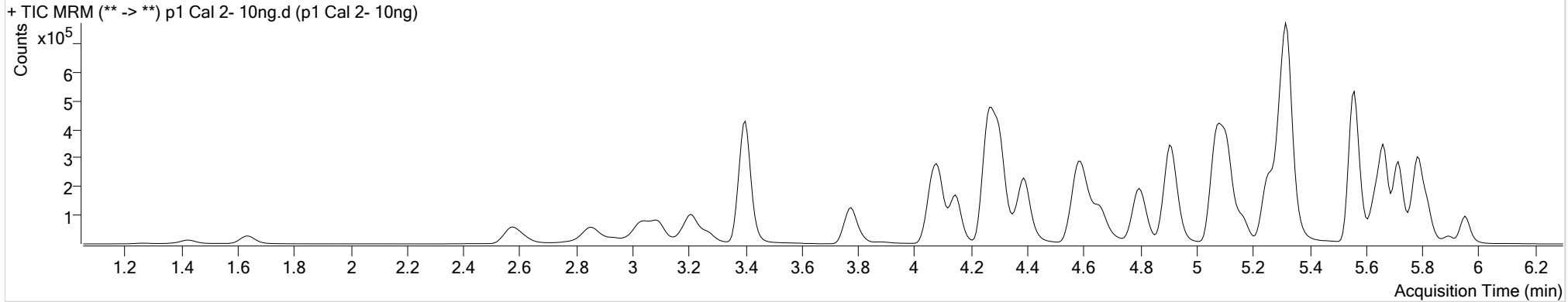
Batch results
Calibration Last Update

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10/18/2019 9:51:56 AM

Instrument Falco
Type Cal
Acq. Method MDQ P1 Combined 092319.m
Sample Position P2-B5
Injection Volume 2
Acq. Date-Time 10/17/2019 1:22:33 PM
Sample Info.

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

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.170	1670	5718.68	71.5	2835.89	30703	0.9647 ng/ml
7-aminoclonazepam	4.285	20679	553.80	79.2	∞	79094	10.3279 ng/ml
a-hydroxyalprazolam	5.700	1139	171.90	86.8	1387.40	7799	7.9713 ng/ml
alpha-PVP	4.398	122729	4553.89	49.6	7387.83	536512	10.0977 ng/ml
Alprazolam	5.784	42697	308.04	102.7	904.74	98039	10.0484 ng/ml
Amphetamine	3.095	141066	2348.12	54.4	312.97	125795	10.3962 ng/ml
Benzoylcegonine	3.907	2648	21.58	7.4	72.21	10906	10.0194 ng/ml
Buprenorphine	5.835	6596	219.33	15.8	127.81	186999	0.9779 ng/ml
Bupropion	4.813	138720	45182.53	59.5	362.59	440357	9.7274 ng/ml
Carisoprodol	5.733	25238	∞	53.4	201.43	124128	9.8774 ng/ml
Citalopram	5.256	99735	928.00	42.2	∞	457007	10.0966 ng/ml
Clonazepam	5.620	7317	∞	31.0	∞	13221	10.5123 ng/ml
Cocaine	4.298	112342	9007.40	44.2	10188.33	842439	10.1452 ng/ml
Codeine	2.623	11823	11063.12	100.7	67.03	48378	9.7395 ng/ml
Cyclobenzaprine	5.637	78443	12408.70	10.7	398.38	286480	9.9002 ng/ml
Dextromethorphan	5.299	60261	107.35	80.3	254.53	278099	9.8056 ng/ml
Dextrorphan	4.147	26595	36223.21	220.0	7198.86	384680	9.8537 ng/ml
Diazepam	5.961	34729	231.04	89.0	318.40	167832	9.9289 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.601	31429	103389.72	66.9	374.87	166969	10.4082 ng/ml
Diphenhydramine	5.327	207979	215.46	32.5	1863.26	1704175	10.1012 ng/ml
Doxylamine	4.601	238072	2141.53	96.2	17551.33	946282	9.8763 ng/ml
EDDP	5.291	55005	∞	43.1	72695.34	314617	9.8610 ng/ml
Fentanyl	5.120	7131	192.46	72.0	10128.06	407250	0.9674 ng/ml
Fluoxetine	5.716	93776	∞	8.5	27473.15	401672	9.9869 ng/ml
Hydrocodone	3.065	26438	292.86	40.0	∞	174411	10.1972 ng/ml
Hydromorphone	1.641	19882	406.24	75.2	410.56	72878	9.8335 ng/ml
Ketamine	4.074	93906	1117.53	37.6	84.65	413686	10.1329 ng/ml
Lamotrigine	4.308	8591	2075.70	82.9	567.73	413686	10.3878 ng/ml
Lorazepam	5.755	2286	29.88	44.9	9.27 Low	13221	9.1770 ng/ml
Meprobamate	4.929	5266	786.80	25.7	110.99	28117	10.4808 ng/ml
Methadone	5.668	123000	∞	53.5	996.03	549546	10.0494 ng/ml
Methamphetamine	3.269	79097	255.92	43.1	1999.11	366127	10.0763 ng/ml
Metoprolol	4.354	22578	∞	97.0	∞	1026965	10.4237 ng/ml
Mirtazapine	4.664	187884	5945.96	50.1	2520.05	536512	9.9720 ng/ml
Mitragynine	5.247	26676	73821.14	39.0	41768.35	549546	9.8998 ng/ml
Morphine	1.273	3639	4374.71	21.3	∞	3687	10.0166 ng/ml
Norbuprenorphine	5.030	96	16.85	115.7 High	15.18	4550	0.7629 ng/ml
Nordiazepam	5.901	9433	21708.10	58.2	612.45	30408	9.7442 ng/ml
Norfentanyl	4.108	11014	1702.90	38.1	356.56	534544	0.9549 ng/ml
Norhydrocodone	3.100	693	77.82	30.8	477.98	37005	9.5382 ng/ml
Noroxycodone	2.950	18720	753.94	46.6	14.58	50796	10.1357 ng/ml
O-desmethyl-tramadol	3.401	200661	7233.95	6.3	442.75	1106419	9.8798 ng/ml
Oxazepam	5.758	2944	18.41	65.4	11.92	18273	10.1895 ng/ml
Oxycodone	2.874	49616	1404.16	30.6	∞	220740	10.0199 ng/ml
Oxymorphone	1.430	11745	266.41	46.8	135.72	38320	10.2385 ng/ml
Phentermine	3.812	35968	1107.38	2.1	14.98	412285	10.4813 ng/ml
Promethazine	5.562	196582	646.92	31.1	1292.72	889350	9.9954 ng/ml
Quetiapine	5.571	133225	1069.96	59.4	237207.55	167554	10.4699 ng/ml
Sertraline	5.791	68511	1136.57	90.7	3166.38	288381	10.2775 ng/ml
Temazepam	5.825	33658	525.38	30.0	73.43	183824	10.1070 ng/ml
Tramadol	4.274	206312	1778.45	3.4	105.82	1026965	10.1382 ng/ml
Trazodone	5.160	131005	21438.66	79.2	9974.21	524231	10.0276 ng/ml
Venlafaxine	5.074	155593	3683.69	35.4	192.49	880592	10.1899 ng/ml
Zolpidem	4.925	183201	∞	31.7	11165.30	894012	10.0302 ng/ml

AM #28 Multi-Drug Quant. Results



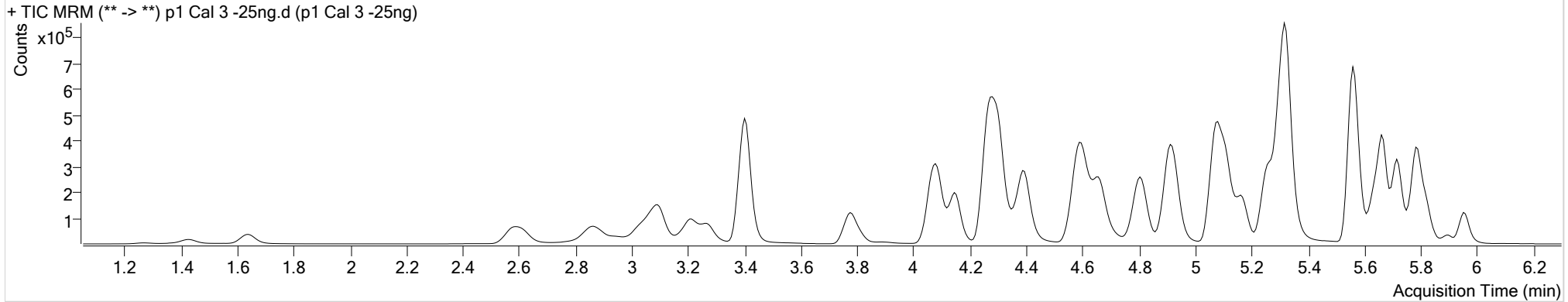
Batch results
Calibration Last Update

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Instrument Falco
Type Cal
Acq. Method MDQ P1 Combined 092319.m
Sample Position P2-C5
Injection Volume 2
Acq. Date-Time 10/17/2019 1:33:03 PM
Sample Info.

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

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.170	3679	8302.08	70.0	1306.67	28045	2.3645 ng/ml
7-aminoclonazepam	4.285	46127	∞	80.3	6361.66	70587	27.4891 ng/ml
a-hydroxyalprazolam	5.700	2895	86.84	75.7	∞	6722	23.9459 ng/ml
alpha-PVP	4.398	277985	191775.22	49.4	23218.29	491105	24.7371 ng/ml
Alprazolam	5.784	94888	600.81	104.9	553.25	90106	24.3092 ng/ml
Amphetamine	3.095	309924	∞	54.3	316.39	113909	27.1402 ng/ml
Benzoylcegonine	3.907	4556	623.96	8.5	834.07	9562	22.8421 ng/ml
Buprenorphine	5.835	13960	579.44	16.3	∞	165281	2.2391 ng/ml
Bupropion	4.813	313050	702.47	58.9	374.64	397318	25.3937 ng/ml
Carisoprodol	5.733	56104	1509.85	52.8	295.98	113079	24.2646 ng/ml
Citalopram	5.256	217475	363.90	41.9	970.95	409085	24.5899 ng/ml
Clonazepam	5.620	15983	32475.61	32.9	463.18	12512	25.1820 ng/ml
Cocaine	4.297	250082	144438.00	45.6	11299.81	784302	24.1593 ng/ml
Codeine	2.630	25800	419.01	103.0	133.69	43611	26.1024 ng/ml
Cyclobenzaprine	5.637	167176	1173.84	10.2	242.34	251996	24.0603 ng/ml
Dextromethorphan	5.306	132607	9309.06	80.2	35152.99	245861	24.7262 ng/ml
Dextrorphan	4.154	62480	2066.88	208.2	2044.45	358106	24.9591 ng/ml
Diazepam	5.961	78281	590.20	86.7	344.90	153288	24.9392 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.608	71532	5054.77	58.8	∞	153804	26.9910 ng/ml
Diphenhydramine	5.327	456754	704.00	32.8	12125.09	1529767	24.5326 ng/ml
Doxylamine	4.601	536332	∞	97.5	∞	865890	24.8643 ng/ml
EDDP	5.291	130095	3670.46	43.0	179037.75	300187	24.8305 ng/ml
Fentanyl	5.120	15852	1063.09	70.9	64606.87	361727	2.3975 ng/ml
Fluoxetine	5.716	200512	∞	8.6	211.59	347753	24.8491 ng/ml
Hydrocodone	3.065	60064	∞	38.9	220.36	160543	26.3059 ng/ml
Hydromorphone	1.648	43611	519.82	76.9	314.56	66028	24.4272 ng/ml
Ketamine	4.074	209651	660.13	38.3	∞	378092	25.6803 ng/ml
Lamotrigine	4.308	19191	3265.45	79.5	1730.66	378092	27.4526 ng/ml
Lorazepam	5.755	5574	58.91	52.9	14.07	12512	23.3797 ng/ml
Meprobamate	4.929	11616	25523.58	26.2	102.41	25602	26.4194 ng/ml
Methadone	5.668	272183	24942.28	51.9	2637.40	492970	24.4312 ng/ml
Methamphetamine	3.269	174608	989.95	43.3	459.49	330740	26.6922 ng/ml
Metoprolol	4.354	50581	1524.54	96.7	5672.98	950348	27.3854 ng/ml
Mirtazapine	4.664	421367	16110.52	49.7	19393.30	491105	24.7577 ng/ml
Mitragynine	5.254	58205	∞	38.4	142146.95	492970	24.9958 ng/ml
Morphine	1.273	8022	267.52	21.4	8093.06	3266	25.5955 ng/ml
Norbuprenorphine	5.030	228	20.00	70.9	26.27	4042	2.4511 ng/ml
Nordiazepam	5.901	21086	2664.22	58.4	1238.95	26809	25.1663 ng/ml
Norfentanyl	4.115	24763	17035.95	38.2	429.36	481863	2.3733 ng/ml
Norhydrocodone	3.106	1626	64.29	35.2	∞	34872	21.1425 ng/ml
Noroxycodone	2.957	41227	∞	46.9	345.12	46271	25.2143 ng/ml
O-desmethyl-tramadol	3.408	456797	28363.34	6.1	1089.97	1019368	24.7948 ng/ml
Oxazepam	5.758	6185	140.78	74.5	27.89	17588	23.3272 ng/ml
Oxycodone	2.881	113681	1668.34	30.9	856.62	205374	25.2261 ng/ml
Oxymorphone	1.430	25409	321.71	48.3	207.11	36603	24.1522 ng/ml
Phentermine	3.812	80108	1461.92	2.2	30.67	376899	27.5989 ng/ml
Promethazine	5.562	439068	3035.98	30.6	3666.53	798146	24.6998 ng/ml
Quetiapine	5.571	291736	3181.45	59.5	1914.08	152318	26.4374 ng/ml
Sertraline	5.791	139764	827.08	91.8	1420.30	249226	24.1706 ng/ml
Temazepam	5.825	74020	2132.48	30.7	∞	168846	24.1366 ng/ml
Tramadol	4.273	464738	19887.61	3.2	182.76	950348	26.2274 ng/ml
Trazodone	5.167	292472	25595.99	77.7	2516.57	479889	25.0611 ng/ml
Venlafaxine	5.074	349229	757.26	36.8	255.21	819196	24.2168 ng/ml
Zolpidem	4.925	414469	∞	31.4	16822.21	814958	25.6166 ng/ml

AM #28 Multi-Drug Quant. Results



Batch results

D:\MassHunter\Data\2019\AM 28\101719 MDQ THCQ SP\QuantResults\MDQ.batch.bin

Calibration Last Update

10/18/2019 9:51:56 AM

Instrument

Falco

Data File

p1 Cal 4-50ng.d

Type

Cal

Sample

p1 Cal 4-50ng

Acq. Method

MDQ P1 Combined 092319.m

Operator

Sample Position

P2-D5

Comment

Injection Volume

2

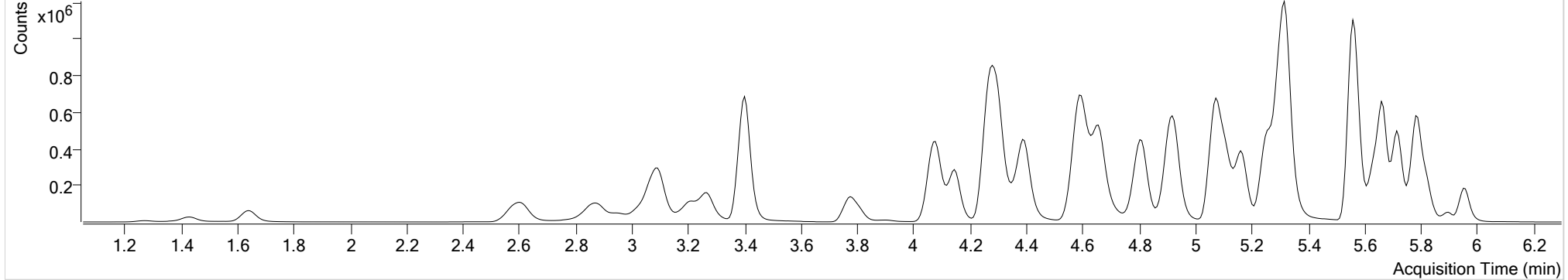
Acq. Date-Time

10/17/2019 1:43:34 PM

Sample Info.

Sample Chromatogram

+ TIC MRM (** -> **) p1 Cal 4-50ng.d (p1 Cal 4-50ng)



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.170	7904	13560.84	73.4	12822.32	29440	4.8676 ng/ml
7-aminoclonazepam	4.285	93998	∞	81.4	∞	73213	55.0857 ng/ml
a-hydroxyalprazolam	5.700	6339	269.58	74.0	221.70	6860	51.6488 ng/ml
alpha-PVP	4.398	606095	70587.65	49.6	22456.23	527581	50.0319 ng/ml
Alprazolam	5.784	196501	985.84	104.1	924.04	90918	49.9010 ng/ml
Amphetamine	3.095	652870	14459.16	54.1	28390.84	123200	54.1335 ng/ml
Benzoylcegonine	3.907	10102	126.11	7.3	187.27	10253	50.7650 ng/ml
Buprenorphine	5.835	30986	1419.82	15.2	∞	172380	4.6825 ng/ml
Bupropion	4.813	688507	957.87	58.3	936.44	434860	51.7437 ng/ml
Carisoprodol	5.733	115040	1094.67	53.6	243.97	111940	50.3803 ng/ml
Citalopram	5.249	478425	25807.42	41.5	23085.40	435468	50.8142 ng/ml
Clonazepam	5.614	35438	3823.27	31.2	23497.27	13082	54.1862 ng/ml
Cocaine	4.297	534848	46648.77	45.1	29602.00	813429	49.7434 ng/ml
Codeine	2.630	54052	8844.81	102.2	993.04	45946	53.6655 ng/ml
Cyclobenzaprine	5.637	368949	74172.33	10.3	∞	267063	50.1603 ng/ml
Dextromethorphan	5.299	291358	14375.25	78.6	1265.00	260275	51.5495 ng/ml
Dextrorphan	4.147	134624	940.89	211.3	∞	380200	50.7156 ng/ml
Diazepam	5.961	164684	686.67	88.1	449.21	158678	50.9898 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.601	151687	130.59	64.9	8733.69	163860	54.5812 ng/ml
Diphenhydramine	5.327	991063	15417.05	32.6	11270.34	1629616	49.8399 ng/ml
Doxylamine	4.594	1186454	4679.70	97.0	∞	931079	51.5498 ng/ml
EDDP	5.291	291454	17304.75	43.4	333.79	328996	51.0301 ng/ml
Fentanyl	5.120	35225	2918.17	70.2	137547.77	387163	4.9605 ng/ml
Fluoxetine	5.716	449458	22528.94	8.6	111927.11	385811	50.3340 ng/ml
Hydrocodone	3.065	125482	339.99	40.5	∞	170932	52.3618 ng/ml
Hydromorphone	1.648	97221	1662.19	75.1	1073.10	70998	51.1103 ng/ml
Ketamine	4.074	450525	53002.48	38.5	2301.45	402139	52.5418 ng/ml
Lamotrigine	4.308	39585	3295.82	78.6	1337.09	402139	54.5833 ng/ml
Lorazepam	5.748	12337	183.06	54.1	46.05	13082	49.3009 ng/ml
Meprobamate	4.929	24279	2500.54	26.0	159.40	26835	53.3998 ng/ml
Methadone	5.668	595291	25828.49	53.1	23966.20	530573	49.3938 ng/ml
Methamphetamine	3.269	387516	2179.80	43.0	2721.79	369431	54.4494 ng/ml
Metoprolol	4.346	105685	337044.21	98.0	∞	1012743	55.1480 ng/ml
Mirtazapine	4.657	929452	20214.01	49.8	38575.08	527581	51.0715 ng/ml
Mitragynine	5.247	127866	179136.29	39.6	198630.01	530573	51.6862 ng/ml
Morphine	1.273	17379	174.75	21.2	3004.99	3679	49.6250 ng/ml
Norbuprenorphine	5.024	525	35.78	77.7	502.06	4661	5.1248 ng/ml
Nordiazepam	5.901	45068	4784.85	58.0	1961.08	28666	50.6040 ng/ml
Norfentanyl	4.108	56669	556.99	38.4	133.50	538767	4.8519 ng/ml
Norhydrocodone	3.106	4198	66.13	35.2	93.72	37853	47.8571 ng/ml
Noroxycodone	2.950	87659	979.27	49.4	768.22	49404	50.7084 ng/ml
O-desmethyl-tramadol	3.401	983927	48552.81	6.2	895.55	1084918	50.4470 ng/ml
Oxazepam	5.758	14021	123.89	70.2	35.42	18326	51.8293 ng/ml
Oxycodone	2.881	244434	3388.35	30.7	5518.82	217950	51.4970 ng/ml
Oxymorphone	1.430	53546	621.33	47.0	239.98	36707	51.5900 ng/ml
Phentermine	3.812	169359	5622.54	2.1	113.60	402775	56.0044 ng/ml
Promethazine	5.562	947912	1937.26	31.0	539.04	852729	49.7908 ng/ml
Quetiapine	5.571	621499	31277.25	60.0	1585.94	163221	53.4125 ng/ml
Sertraline	5.791	301855	28913.24	91.6	9793.75	259594	50.0468 ng/ml
Temazepam	5.825	153382	2077.56	31.8	1060.91	173299	48.6838 ng/ml
Tramadol	4.273	978199	13636.91	3.5	241.60	1012743	52.8566 ng/ml
Trazodone	5.160	644125	110790.90	77.9	91242.55	513185	52.0586 ng/ml
Venlafaxine	5.074	764607	15157.57	36.2	468.79	873897	49.4274 ng/ml
Zolpidem	4.925	896783	8607.79	31.5	250.94	871765	52.3136 ng/ml

AM #28 Multi-Drug Quant. Results



Batch results

Calibration Last Update

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10/18/2019 9:51:56 AM

Instrument

Type

Acq. Method

Sample Position

Injection Volume

Acq. Date-Time

Sample Info.

Falco
Cal
MDQ P1 Combined 092319.m
P2-E5
2
10/17/2019 1:54:04 PM

Data File

Sample

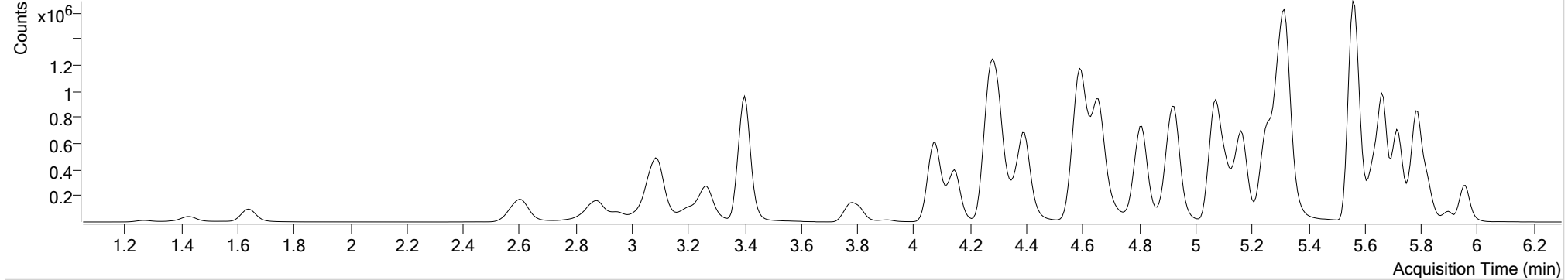
Operator

Comment

p1 Cal 5-100ng.d
p1 Cal 5-100ng

Sample Chromatogram

+ TIC MRM (** -> **) p1 Cal 5-100ng.d (p1 Cal 5-100ng)



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.170	14653	25975.09	70.4	18391.46	27739	9.6032 ng/ml
7-aminoclonazepam	4.285	160917	11508.64	82.8	7073.07	68858	101.1832 ng/ml
a-hydroxyalprazolam	5.700	12040	256.52	76.2	173.76	7152	94.2866 ng/ml
alpha-PVP	4.398	1116829	38885.31	49.7	21714.17	500485	97.0239 ng/ml
Alprazolam	5.784	368301	1462.42	102.4	∞	86351	98.4834 ng/ml
Amphetamine	3.095	1180156	10524.06	51.9	15854.21	114590	106.4743 ng/ml
Benzoylcegonine	3.907	19067	436.15	7.7	221.94	10195	99.3327 ng/ml
Buprenorphine	5.835	56238	3851.45	15.2	23900.90	156337	9.2971 ng/ml
Bupropion	4.813	1269024	57663.23	58.9	1393.02	413781	100.8942 ng/ml
Carisoprodol	5.733	203880	∞	54.0	188.84	101957	98.1352 ng/ml
Citalopram	5.249	863618	7623.18	42.0	486.89	409880	97.4489 ng/ml
Clonazepam	5.620	64986	14006.30	32.2	826.62	12378	105.6756 ng/ml
Cocaine	4.298	976478	65797.31	45.7	52767.45	759061	97.2540 ng/ml
Codeine	2.623	97871	464.54	101.3	406.87	42598	106.5002 ng/ml
Cyclobenzaprine	5.637	672157	2146.42	10.2	1238.50	250706	97.3938 ng/ml
Dextromethorphan	5.299	524690	∞	79.5	25767.26	244411	99.0552 ng/ml
Dextrorphan	4.147	247540	27742.57	210.9	103032.41	361035	98.2600 ng/ml
Diazepam	5.961	304931	566.72	88.1	1192.71	150811	99.6202 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.601	275903	18283.82	66.7	276.72	156844	104.4991 ng/ml
Diphenhydramine	5.327	1792382	217488.83	32.7	∞	1514272	96.8856 ng/ml
Doxylamine	4.594	2193685	4303.62	98.2	6328.93	906394	98.2463 ng/ml
EDDP	5.291	553906	12016.02	43.1	19526.00	327129	97.7742 ng/ml
Fentanyl	5.120	67171	804.53	69.8	∞	372654	9.8120 ng/ml
Fluoxetine	5.716	819322	25923.38	8.7	∞	363968	97.3777 ng/ml
Hydrocodone	3.058	232913	∞	39.9	82.80	172296	97.0735 ng/ml
Hydromorphone	1.641	180259	∞	73.5	1906.14	65966	102.4268 ng/ml
Ketamine	4.074	842922	39568.57	38.2	10261.62	394328	100.8359 ng/ml
Lamotrigine	4.308	69937	10742.26	79.9	28718.42	394328	99.4911 ng/ml
Lorazepam	5.748	23367	419.94	53.4	143.91	12378	98.5210 ng/ml
Meprobamate	4.929	44864	37987.76	25.9	352.51	26181	101.7897 ng/ml
Methadone	5.668	1101377	28275.12	51.7	113934.62	503368	96.0922 ng/ml
Methamphetamine	3.269	699395	1066.84	43.2	6682.46	347229	105.8731 ng/ml
Metoprolol	4.346	187868	15819.91	97.8	∞	981761	102.3875 ng/ml
Mirtazapine	4.657	1731382	∞	49.3	129989.38	500485	100.5032 ng/ml
Mitragynine	5.247	232037	158971.69	39.5	181278.04	503368	99.4473 ng/ml
Morphine	1.273	31841	12308.27	20.9	1166.84	3305	101.6940 ng/ml
Norbuprenorphine	5.024	980	94.49	78.2	102.20	4426	10.3111 ng/ml
Nordiazepam	5.901	84789	3411.24	58.7	676.25	27737	98.6742 ng/ml
Norfentanyl	4.108	107933	67762.11	37.2	120.75	517787	9.6100 ng/ml
Norhydrocodone	3.106	8148	516.68	34.8	542.31	36582	94.3367 ng/ml
Noroxycodone	2.950	163273	1126.09	48.0	4048.00	46193	101.5093 ng/ml
O-desmethyl-tramadol	3.401	1849255	74183.31	6.1	880.99	1051153	98.1038 ng/ml
Oxazepam	5.758	25915	149.60	75.0	84.28	17875	99.0330 ng/ml
Oxycodone	2.874	456941	2643.07	31.2	27928.60	211700	99.4579 ng/ml
Oxymorphone	1.430	102888	2955.18	46.8	1289.66	34829	105.2544 ng/ml
Phentermine	3.812	296006	∞	2.2	228.90	376766	105.8889 ng/ml
Promethazine	5.562	1730384	308166.31	30.6	1377.13	802820	96.4311 ng/ml
Quetiapine	5.571	1139913	83096.31	59.2	23896.55	153354	105.0916 ng/ml
Sertraline	5.791	526375	2386.77	90.7	22411.46	231790	97.6775 ng/ml
Temazepam	5.825	289789	900.15	30.8	1252.70	161485	98.6625 ng/ml
Tramadol	4.274	1799414	∞	3.3	1240.16	981761	101.2683 ng/ml
Trazodone	5.160	1204388	192032.94	78.4	3734.33	501146	100.0629 ng/ml
Venlafaxine	5.067	1427800	3512.74	36.0	∞	824927	97.5229 ng/ml
Zolpidem	4.925	1684699	67491.58	31.3	29881.12	849869	101.2608 ng/ml

AM #28 Multi-Drug Quant. Results



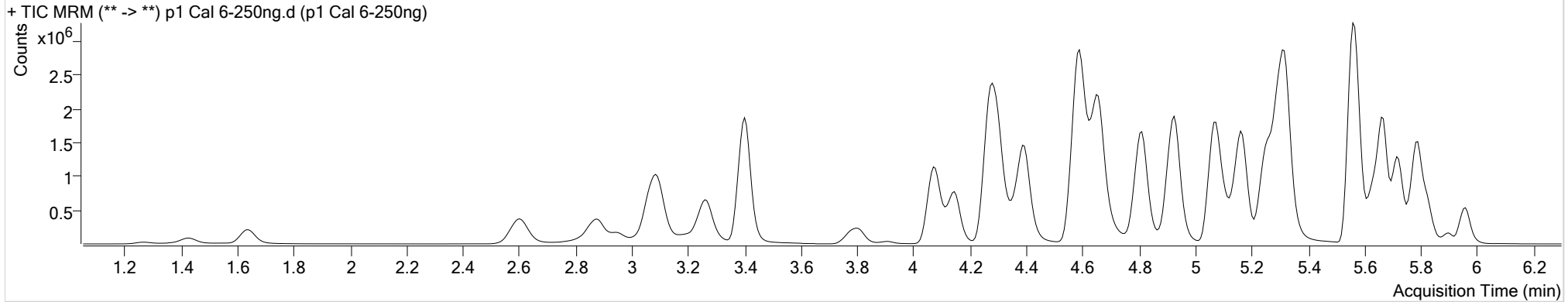
Batch results
Calibration Last Update

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10/18/2019 9:51:56 AM

Instrument Type Falco
Acq. Method MDQ P1 Combined 092319.m
Sample Position P2-F5
Injection Volume 2
Acq. Date-Time 10/17/2019 2:04:34 PM
Sample Info.

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

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.163	37132	∞	70.7	142816.05	27177	24.8823 ng/ml
7-aminoclonazepam	4.278	302504	61376.06	81.8	30520.37	55156	238.9698 ng/ml
a-hydroxyalprazolam	5.700	30135	∞	75.3	455.09	6583	256.7723 ng/ml
alpha-PVP	4.398	2773973	31683.96	49.6	411076.46	489081	246.3460 ng/ml
Alprazolam	5.784	824793	6059.45	102.6	11497.76	74473	255.7376 ng/ml
Amphetamine	3.088	2573293	1170.56	52.3	∞	113001	237.0555 ng/ml
Benzoylcegonine	3.907	49402	435.35	7.8	1587.69	10643	251.4296 ng/ml
Buprenorphine	5.835	132585	2881.90	15.6	∞	129994	26.2254 ng/ml
Bupropion	4.813	3165264	220980.29	58.5	58016.57	408915	255.7297 ng/ml
Carisoprodol	5.733	415017	64577.38	53.9	2522.22	81064	251.4241 ng/ml
Citalopram	5.249	1965662	55568.56	41.7	637.88	366393	248.1213 ng/ml
Clonazepam	5.614	151742	6934.79	31.8	2086.56	12130	252.7618 ng/ml
Cocaine	4.297	2335473	54226.92	44.6	113897.13	704898	250.3665 ng/ml
Codeine	2.623	221399	7292.53	104.1	18812.05	39609	261.6535 ng/ml
Cyclobenzaprine	5.637	1491027	262706.64	10.1	32779.41	213738	253.4963 ng/ml
Dextromethorphan	5.299	1174942	50265.31	79.7	33390.87	216954	250.2142 ng/ml
Dextrorphan	4.147	609345	47584.58	211.1	3956.72	349813	249.7289 ng/ml
Diazepam	5.961	689699	9222.41	87.3	980.98	133897	254.2450 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.595	664100	22125.57	65.7	10494.61	157187	252.1947 ng/ml
Diphenhydramine	5.320	4055693	213992.90	32.7	20401.51	1343906	246.8248 ng/ml
Doxylamine	4.588	5766243	17320.30	96.7	61993.05	931543	251.8596 ng/ml
EDDP	5.291	1465234	134754.19	43.3	38907.17	337148	251.3628 ng/ml
Fentanyl	5.120	166677	74172.22	70.9	146985.02	360054	25.1746 ng/ml
Fluoxetine	5.716	1883452	35488.04	8.5	11633.09	315693	258.2883 ng/ml
Hydrocodone	3.058	583842	281.01	40.1	258.63	173349	243.0105 ng/ml
Hydromorphone	1.641	440341	540.54	75.7	22414.09	63469	260.7259 ng/ml
Ketamine	4.074	2059125	65563.16	38.8	1994.09	388622	250.8947 ng/ml
Lamotrigine	4.308	141133	7328.61	80.3	46496.21	388622	205.2200 ng/ml
Lorazepam	5.755	60565	665.36	52.9	424.70	12130	260.2976 ng/ml
Meprobamate	4.929	101135	9634.79	25.8	2042.09	23920	252.2160 ng/ml
Methadone	5.668	2553550	4585.59	53.1	1585.11	462199	242.2616 ng/ml
Methamphetamine	3.262	1755973	20400.69	43.5	951.43	364434	255.2610 ng/ml
Metoprolol	4.346	414930	∞	97.2	∞	977199	229.0357 ng/ml
Mirtazapine	4.657	4225273	148118.19	49.3	13242.44	489081	251.3235 ng/ml
Mitragynine	5.247	552515	40895.99	38.7	20402.84	462199	258.9106 ng/ml
Morphine	1.266	74105	5004.96	21.2	185.01	3129	250.5697 ng/ml
Norbuprenorphine	5.024	2410	137.07	77.8	98.67	4568	24.9064 ng/ml
Nordiazepam	5.901	200076	5255.75	57.5	2728.12	25520	253.5387 ng/ml
Norfentanyl	4.108	281680	553.07	37.4	1834.48	517645	25.0780 ng/ml
Norhydrocodone	3.106	20923	620.49	34.8	∞	35203	248.8130 ng/ml
Noroxycodone	2.950	394399	2849.82	48.5	3865.03	45126	251.7403 ng/ml
O-desmethyl-tramadol	3.401	4647832	112288.70	6.2	822.15	1038705	249.9267 ng/ml
Oxazepam	5.758	67371	179.20	72.5	92.56	17562	263.5477 ng/ml
Oxycodone	2.874	1182196	12257.23	31.0	4120.96	218312	250.0917 ng/ml
Oxymorphone	1.423	237888	543.08	46.8	984.97	34281	248.2794 ng/ml
Phentermine	3.805	676159	9055.76	2.0	1226.34	367419	249.9610 ng/ml
Promethazine	5.562	3992953	2901.04	30.4	134643.79	723133	246.8562 ng/ml
Quetiapine	5.571	2517135	238872.30	59.2	85138.24	141557	252.6044 ng/ml
Sertraline	5.791	1055183	58082.05	91.1	69055.54	183088	247.7901 ng/ml
Temazepam	5.825	694894	27222.55	30.9	1342.47	153489	248.8427 ng/ml
Tramadol	4.273	4250429	51469.45	3.4	1580.71	977199	241.8075 ng/ml
Trazodone	5.160	2995241	∞	77.8	∞	496854	251.6357 ng/ml
Venlafaxine	5.067	3580786	2415.00	35.9	23137.67	820378	245.5375 ng/ml
Zolpidem	4.925	4156181	4898.30	31.1	122299.81	839425	253.6511 ng/ml

AM #28 Multi-Drug Quant. Results



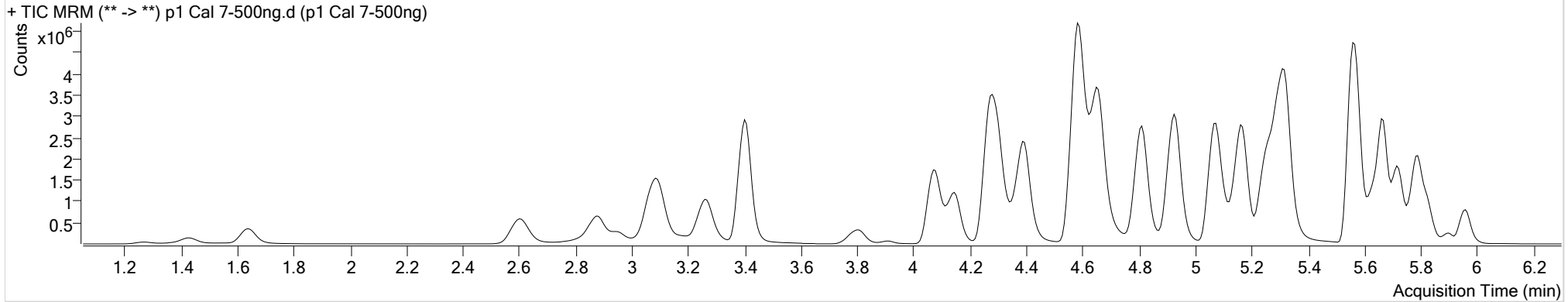
Batch results
Calibration Last Update

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10/18/2019 9:51:56 AM

Instrument Falco
Type Cal
Acq. Method MDQ P1 Combined 092319.m
Sample Position P2-G5
Injection Volume 2
Acq. Date-Time 10/17/2019 2:15:04 PM
Sample Info.

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

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.170	67028	289914.95	69.6	8636.87	23093	52.8910 ng/ml
7-aminoclonazepam	4.278	395029	31399.68	80.9	21232.72	40926	421.4190 ng/ml
a-hydroxyalprazolam	5.700	52961	1524.75	74.3	702.93	5737	518.0239 ng/ml
alpha-PVP	4.398	4899754	181725.34	49.5	90432.10	429613	495.1889 ng/ml
Alprazolam	5.784	1292373	8904.58	104.4	∞	60026	497.1716 ng/ml
Amphetamine	3.095	3921536	56647.39	52.3	355672.33	99228	412.3912 ng/ml
Benzoylcegonine	3.907	96154	21751.01	7.7	1735.79	10421	503.0521 ng/ml
Buprenorphine	5.835	216614	∞	15.5	52062.80	94888	58.6074 ng/ml
Bupropion	4.813	5482550	356254.23	58.6	90511.91	361443	501.8062 ng/ml
Carisoprodol	5.733	598495	37292.21	53.2	354.24	58063	506.3246 ng/ml
Citalopram	5.249	3081992	95157.19	42.0	35866.00	288770	493.6032 ng/ml
Clonazepam	5.614	245729	1392.46	32.6	10396.03	10768	461.6946 ng/ml
Cocaine	4.298	3841211	188483.00	44.7	104856.10	585414	495.7601 ng/ml
Codeine	2.623	365273	7418.06	101.7	489.31	33703	509.0047 ng/ml
Cyclobenzaprine	5.637	2307461	2950.37	10.2	∞	165443	506.8726 ng/ml
Dextromethorphan	5.299	1782230	90762.90	79.2	35722.85	163215	504.7259 ng/ml
Dextrorphan	4.147	1057263	72175.56	211.3	45670.34	303928	498.7770 ng/ml
Diazepam	5.961	1127792	10478.14	87.6	5179.40	112574	494.7649 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.601	1115409	23606.56	66.5	45206.59	142233	468.8589 ng/ml
Diphenhydramine	5.327	6339070	191475.80	32.9	∞	1047256	494.9431 ng/ml
Doxylamine	4.581	10694113	9433.02	96.4	4589.21	855674	508.8994 ng/ml
EDDP	5.291	2837550	134389.42	43.5	51628.96	328911	499.2337 ng/ml
Fentanyl	5.120	287438	3278.50	71.4	38767.10	310509	50.3257 ng/ml
Fluoxetine	5.716	2890279	69526.75	8.6	∞	251795	497.0604 ng/ml
Hydrocodone	3.058	1042627	298.44	40.5	190.63	151656	496.8508 ng/ml
Hydromorphone	1.641	786672	∞	73.5	3230.94	59579	496.5945 ng/ml
Ketamine	4.074	3584176	202890.92	38.8	1545.93	349906	485.6356 ng/ml
Lamotrigine	4.315	192615	4486.46	80.5	41856.96	349906	311.8067 ng/ml
Lorazepam	5.748	111575	∞	53.2	685.16	10768	540.0328 ng/ml
Meprobamate	4.929	160799	1500.23	25.4	4437.03	19925	482.0579 ng/ml
Methadone	5.668	4363881	420422.11	51.7	148609.64	384809	497.0184 ng/ml
Methamphetamine	3.262	2920142	2635.12	43.3	23059.19	326363	475.2398 ng/ml
Metoprolol	4.346	638176	260540.33	97.0	16119.66	795630	433.9991 ng/ml
Mirtazapine	4.657	7237832	14546.13	49.6	134408.96	429613	490.3194 ng/ml
Mitragynine	5.247	880899	368666.31	39.9	389160.38	384809	496.3972 ng/ml
Morphine	1.266	132233	219.07	20.9	521.85	2890	484.5545 ng/ml
Norbuprenorphine	5.024	4399	105.53	76.2	472.45	4096	50.9585 ng/ml
Nordiazepam	5.901	336323	18919.49	58.0	7935.56	21979	495.1324 ng/ml
Norfentanyl	4.108	493225	569.27	37.1	3698.52	437742	51.9212 ng/ml
Norhydrocodone	3.106	36748	539.72	36.4	231.78	29942	511.9080 ng/ml
Noroxycodone	2.950	682609	3753.88	47.9	4221.61	39661	496.2266 ng/ml
O-desmethyl-tramadol	3.401	8194999	124334.88	6.1	16082.69	906945	504.9525 ng/ml
Oxazepam	5.758	126373	463.61	73.0	172.75	18063	481.3788 ng/ml
Oxycodone	2.874	2196427	8306.96	30.9	2330.56	205239	494.6149 ng/ml
Oxymorphone	1.423	415070	629.12	47.3	463.81	29256	508.4032 ng/ml
Phentermine	3.805	1082425	1774.37	2.0	377.01	323843	455.1651 ng/ml
Promethazine	5.556	6420427	1933.56	30.1	1822.66	574655	499.3668 ng/ml
Quetiapine	5.571	3964138	4136.30	59.2	122864.01	118171	477.3118 ng/ml
Sertraline	5.791	1459037	77953.57	92.4	5925.42	129724	483.5099 ng/ml
Temazepam	5.825	1209670	20346.31	29.9	1637.57	130085	511.0720 ng/ml
Tramadol	4.267	7066451	∞	3.4	∞	795630	494.8791 ng/ml
Trazodone	5.160	5147622	∞	78.2	141163.66	433095	496.5357 ng/ml
Venlafaxine	5.067	6307378	3156.20	35.9	1738.86	715282	495.7832 ng/ml
Zolpidem	4.925	7186231	1127.25	31.2	140263.46	761591	483.8386 ng/ml

AM #28 Multi-Drug Quant. Results



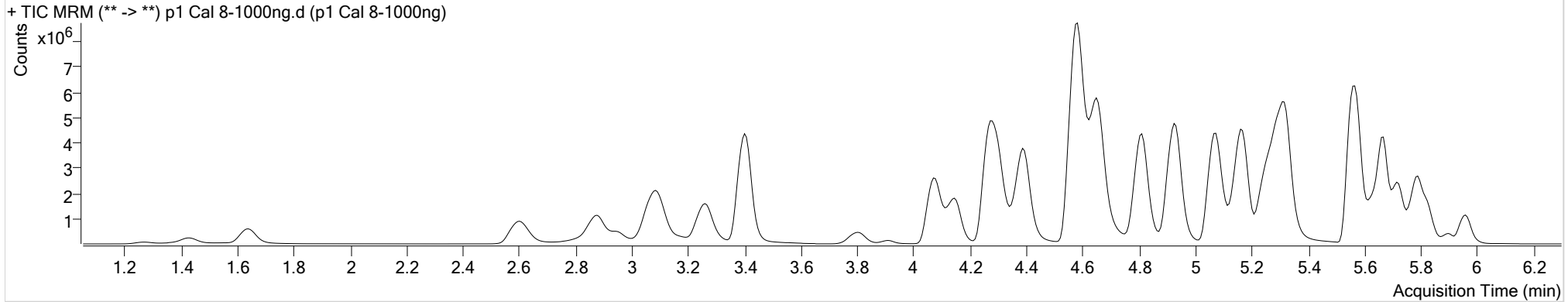
Batch results
Calibration Last Update

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Instrument Falco
Type Cal
Acq. Method MDQ P1 Combined 092319.m
Sample Position P2-H5
Injection Volume 2
Acq. Date-Time 10/17/2019 2:25:35 PM
Sample Info.

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

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.163	120945	2870.51	71.4	∞	20597	107.0266 ng/ml
7-aminoclonazepam	4.278	432519	∞	81.7	18161.25	27088	697.8453 ng/ml
a-hydroxyalprazolam	5.700	93511	846.19	75.3	865.40	5349	981.2271 ng/ml
alpha-PVP	4.391	8121697	70666.70	49.5	71905.12	348610	1011.3608 ng/ml
Alprazolam	5.784	1976080	∞	101.9	∞	45667	999.2318 ng/ml
Amphetamine	3.095	5425709	88407.24	52.3	91178.62	82385	688.1129 ng/ml
Benzoylcegonine	3.907	203642	144541.25	7.6	14933.02	10618	1049.2534 ng/ml
Buprenorphine	5.842	307637	20659.39	15.7	3486.31	59425	132.8150 ng/ml
Bupropion	4.813	9106983	787221.88	58.2	175612.75	304549	989.9491 ng/ml
Carisoprodol	5.733	813500	80329.10	54.1	3053.43	39083	1022.5425 ng/ml
Citalopram	5.249	4380113	57929.16	40.8	283697.15	200529	1010.1955 ng/ml
Clonazepam	5.614	377605	15980.52	32.2	78225.16	8458	903.8280 ng/ml
Cocaine	4.298	5939942	278289.95	44.1	77969.34	445504	1007.3145 ng/ml
Codeine	2.623	572406	14218.78	103.3	24208.10	27780	969.2855 ng/ml
Cyclobenzaprine	5.637	3252601	120007.27	10.0	329.60	114796	1029.7693 ng/ml
Dextromethorphan	5.299	2403370	62308.62	79.2	53001.64	111681	994.9051 ng/ml
Dextrorphan	4.147	1729915	93547.62	211.5	155235.01	247409	1002.6044 ng/ml
Diazepam	5.961	1745963	4849.09	87.0	1947.17	87572	984.9427 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.595	1838866	71578.54	66.1	60409.48	130531	842.9473 ng/ml
Diphenhydramine	5.327	9199360	308854.79	32.7	43497.05	743489	1011.6022 ng/ml
Doxylamine	4.581	18761616	21172.27	95.8	378600.08	772134	989.7575 ng/ml
EDDP	5.284	5363225	290636.12	42.8	66029.23	307001	1011.2051 ng/ml
Fentanyl	5.120	481280	3177.02	73.7	83252.77	246549	106.1069 ng/ml
Fluoxetine	5.716	3919152	126285.43	8.8	26250.67	170227	997.0909 ng/ml
Hydrocodone	3.058	1846115	388.82	40.7	279.36	138060	967.1077 ng/ml
Hydromorphone	1.641	1353004	∞	80.3	∞	53697	948.0516 ng/ml
Ketamine	4.074	5984963	79718.80	38.4	373723.15	301241	942.5389 ng/ml
Lamotrigine	4.315	223515	27004.23	79.7	15761.17	301241	420.7795 ng/ml
Lorazepam	5.748	209865	17380.26	53.9	1536.11	8458	1292.8212 ng/ml
Meprobamate	4.929	231091	9472.10	25.8	3190.51	15722	878.5736 ng/ml
Methadone	5.668	6808504	157064.73	50.9	57654.00	293828	1015.3003 ng/ml
Methamphetamine	3.262	4631807	44155.99	43.3	26116.85	295462	833.7214 ng/ml
Metoprolol	4.346	901181	31828.03	98.0	∞	658654	741.3794 ng/ml
Mirtazapine	4.657	11964177	416132.51	49.6	222171.20	348610	999.0632 ng/ml
Mitragynine	5.247	1345835	289269.37	39.8	78191.67	293828	993.8647 ng/ml
Morphine	1.273	231027	8494.83	21.0	1524.24	2450	999.1126 ng/ml
Norbuprenorphine	5.024	7856	396.84	76.9	303.57	3940	94.8045 ng/ml
Nordiazepam	5.901	563049	∞	57.9	6333.32	18134	1004.9820 ng/ml
Norfentanyl	4.108	799474	22300.50	37.6	12412.10	339168	108.6135 ng/ml
Norhydrocodone	3.106	67509	1262.13	37.0	153.84	23530	1194.3646 ng/ml
Noroxycodone	2.950	1155551	748.11	47.5	1463.07	34732	959.7180 ng/ml
O-desmethyl-tramadol	3.401	13848413	295713.64	6.1	71731.01	764095	1013.0899 ng/ml
Oxazepam	5.758	248198	481.41	70.8	411.86	17025	1004.0970 ng/ml
Oxycodone	2.874	4065916	∞	31.0	6752.48	191791	980.1778 ng/ml
Oxymorphone	1.423	734067	∞	47.1	∞	28414	926.4039 ng/ml
Phentermine	3.805	1655833	3308.38	2.0	784.27	276462	816.7540 ng/ml
Promethazine	5.556	9332022	3725.78	29.9	∞	413916	1007.5668 ng/ml
Quetiapine	5.571	5727420	101967.48	59.7	1237.28	95423	854.6986 ng/ml
Sertraline	5.798	1793708	79146.39	90.1	29940.86	75497	1021.2865 ng/ml
Temazepam	5.825	2056597	28960.43	31.0	1043.61	108522	1041.4958 ng/ml
Tramadol	4.267	11008867	250979.55	3.4	∞	658654	932.2625 ng/ml
Trazodone	5.160	8754289	324564.98	77.8	451355.32	381408	959.2574 ng/ml
Venlafaxine	5.067	10717384	152658.56	35.4	151662.37	595263	1012.0081 ng/ml
Zolpidem	4.925	12440268	368374.44	30.4	91298.19	677121	942.5356 ng/ml