


















Worklist: 3502

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>	
M2019-2509	1	155421	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
M2019-2511	1	155422	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1672	1	155423	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1675	1	155424	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1677	1	155425	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1678	1	155426	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1679	1	155427	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1691	1	155428	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1710	1	155429	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1712	1	155430	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1713	1	155431	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1714	1	155432	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1718	1	155433	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1719	1	155434	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1725	1	155435	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1746	2	155436	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1752	1	155437	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	

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

TS

Extraction Date: 06/24/19
Plate lot#: Item #:IDP-111 Lot:190124

Analyst: Tamara Salazar
Plate Expiration: 07/24/19

Mobile phase A: 5mM Amm Form + 0.01% FA
0.5M Ammonium Hydroxide

Mobile phase B: 0.01% Formic Acid in MeOH
Ethyl Acetate 20% Methanol in Water

Blank Blood Lot: 445283-1

Column: ~~Agilent 120 EC-C18 (2.1x 100-4um)~~

LCMS-QQQ ID: 069901

Agilent 120 EC-C18 (2.1 x 100-2.7um) 09/16/19

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Pre-Analytic:

- 1. Check levels of mobile phases and needle wash refill as needed. Ensure waste is not full.
- 2. Ensure correct column is installed and begin mobile phase flow allow to equilibrate ~ 30 minutes.
- 3. Create worklist.

Analytic:

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

Post-Analytic

- 1. Create batch and process data.
Worklist path: *D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS*
Batch Name: *MDQ P1 wklst 3502 TS*
- 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:

Curves Limited: 7-aminoclonazepam 5-500, Amphetamine 5-100, Benzoylcegonine 50-1000, Buprenorphine 1-100, Lamotrigine 5-500, Lorazepam 25-1000, Metoprolol 5-500, Norhydrocodone 5-250, Oxazepam 25-1000 (qualitative only), Trazodone 5-500 (quantitative range will be 5-500)



Idaho State Police Forensic Services

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

Methanol External Control Solution (Lot: 121218)

100 ul each 1 mg/mL stock solution in 9600 ul MeOH

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>	<i>Expiration Date</i>
Methanol (LCMS)	Fisher	177145	
Fluoxetine	Cerilliant	FN06281603	07/31/2021
O-desmethyl Tramadol	Cerilliant	FN01241702	04/30/2022
Amphetamine	Cerilliant	FE04061701	06/30/2022
Alprazolam	Cerilliant	FE07061604	07/31/2021
Prepared:	12/12/18		
Prepared By:	Sarah Pickle		
Expires:	12/12/19		

Blood External Control Solution (Lot: WS121218)

50ul of methanol external control solution was added to 9950ul of blood.

Approximately 50ng/mL of each compound.

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
Negative Blood	Hemostat	177145
Methanol External Control Solution		121218
Prepared:	12/12/18	
Prepared By:	Sarah Pickle	
Expires:	12/12/19	

TS

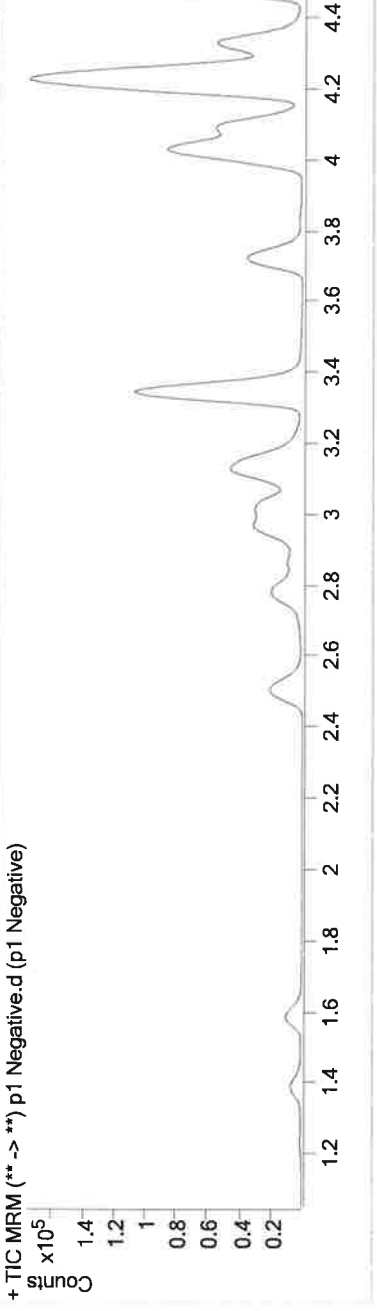


AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st 3502 TS.batch.bin
Calibration Last Update 6/25/2019 11:30:48 AM

Instrument Type	Falco	Data File	p1 Negative.d
Acq. Method	MDQ P1 Combined 011619.m	Sample	p1 Negative
Sample Position	P2-D11	Operator	
Injection Volume	1	Comment	
Acq. Date-Time	6/25/2019 1:49:49 AM		

Sample Chromatogram



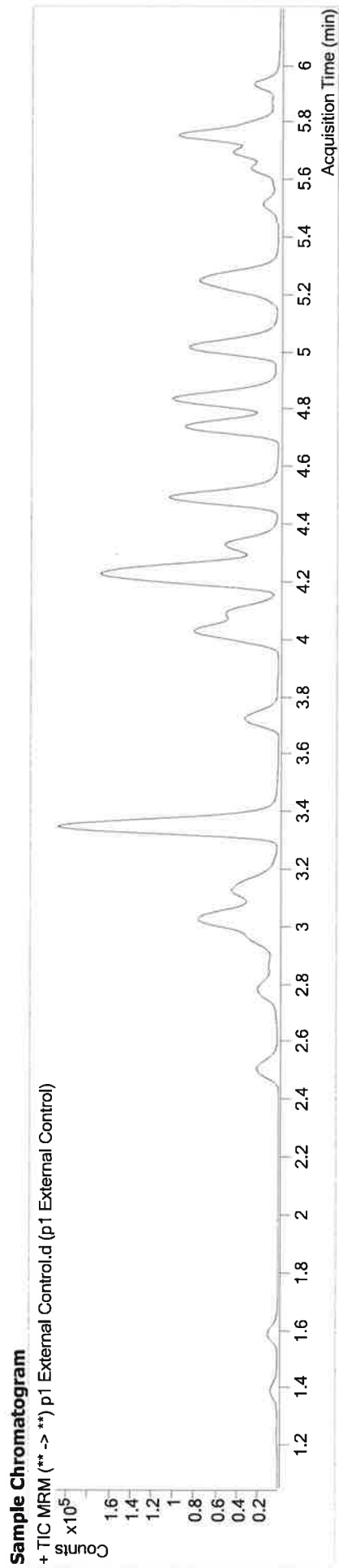
75



AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1_wklist 3502 TS.batch.bin
Calibration Last Update 6/25/2019 11:30:48 AM

Instrument Type	Falco	Data File	p1 External Control.d
Acq. Method	MDQ P1 Combined 011619.m	Sample Operator	p1 External Control
Sample Position	P2-C11	Comment	
Injection Volume	1		
Acq. Date-Time	6/25/2019 2:10:44 AM		



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Alprazolam	5.763	86762	1796.28	103.1	1832.04	55910	41.0553 ng/ml
Amphetamine	3.035	142288	2633.56	54.6	2193.33	45527	40.8761 ng/ml
Fluoxetine	5.701	4810	291.09	10.3	3467.53	5564	29.6886 ng/ml
O-desmethyl-tramadol	3.358	366435	18794.48	6.4	917.73	377751	40.8548 ng/ml

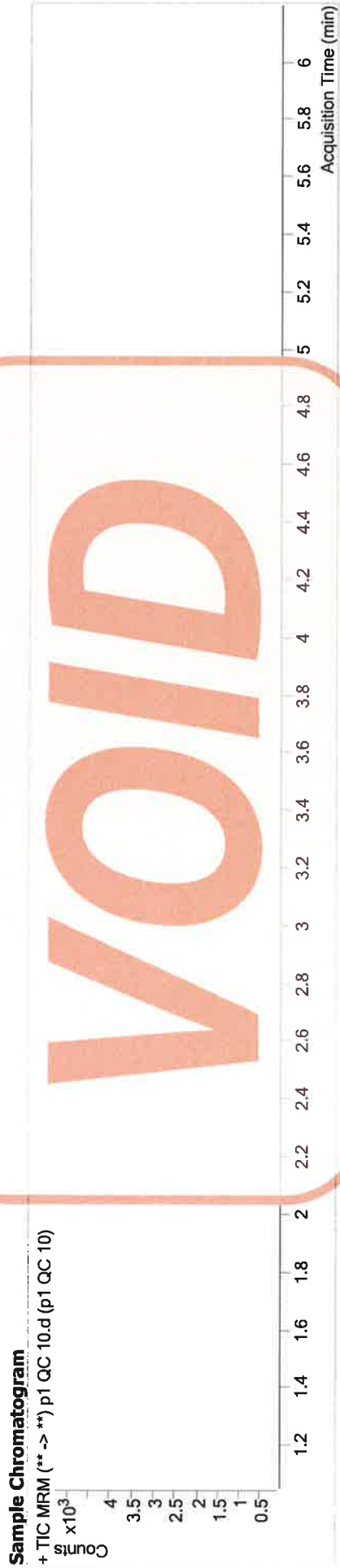
TS



AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wklst 3502 TS.batch.bin
Calibration Last Update 6/25/2019 11:30:48 AM

Instrument Type Falco QC
Acq. Method MDQ P1 Combined 011619.m
Sample Position P2-H11
Injection Volume 1
Acq. Date-Time 6/25/2019 12:05:07 AM
Sample Info. p1 QC 10.d
p1 QC 10



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Oxazepam	5.819	1094	2.76	Low	37	974.6341	ng/ml

QC failed to inject on initial injection. QC was reinjected.

TS



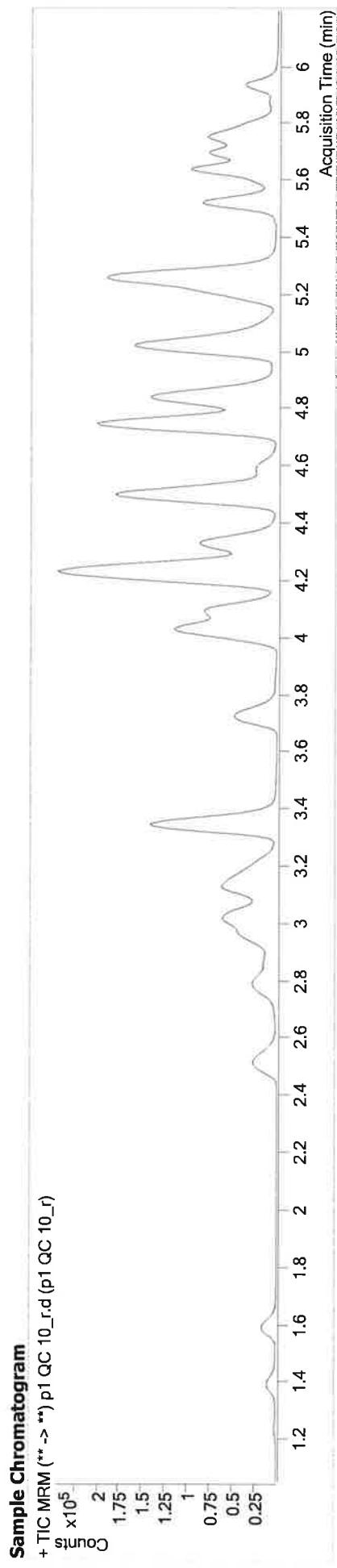
AM #28 Multi-Drug Quant. Results

Batch results Calibration Last Update D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st 3502 TS.batch.bin 6/25/2019 11:30:48 AM

Instrument Type: Falco QC
 Acq. Method: MDQ P1 Combined 0111619.m
 Sample Position: P2-H11
 Injection Volume: 1
 Acq. Date-Time: 6/25/2019 10:15:57 AM
 Sample Info.

Data File: p1 QC 10_r.d
 Sample Operator: p1 QC 10_r

Comment: *QC did not inject properly with first injection. Sample was re-injected. -TS



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.123	2059	236.90	72.9	1699.81	70887	0.8598 ng/ml
7-aminoclonazepam	4.239	12502	1246.36	80.3	1531.10	48858	10.3010 ng/ml
a-hydroxyalprazolam	5.679	3134	110.76	61.5	140.21	14608	10.1138 ng/ml
alpha-PVP	4.345	47193	1099.90	51.1	531.72	210846	9.7444 ng/ml
Alprazolam	5.763	20304	367.59	103.9	∞	59961	10.5716 ng/ml
Amphetamine	3.035	60997	601.96	56.9	1836.13	81162	9.8614 ng/ml
Benzoylecgonine	3.862	1509	72.26	8.0	27.41	4301	19.7600 ng/ml
Buprenorphine	5.767	1703	55.00	18.0	361.48	66116	1.1038 ng/ml
Bupropion	4.767	160382	23588.56	59.2	3910.66	523608	10.9810 ng/ml
Carisoprodol	5.711	17281	6464.61	56.2	41.53	86175	10.0112 ng/ml
Citalopram	5.206	26876	649.78	42.0	49038.43	115529	10.2856 ng/ml
Clonazepam	5.592	1886	1798.72	34.0	96.52	3177	10.0532 ng/ml
Cocaine	4.245	44390	∞	43.0	6762.31	426794	10.2225 ng/ml
Codeine	2.563	5617	311.93	102.1	713.98	24707	10.3337 ng/ml
Cyclobenzaprine	5.615	12088	9261.06	10.5	45.48	50059	9.7738 ng/ml
Dextromethorphan	5.249	14204	526.60	77.8	826.64	67246	9.5180 ng/ml
Dextropropriphan	4.101	17243	777.01	207.8	21706.26	190551	10.6083 ng/ml
Diazepam	5.949	14418	398.52	89.0	423.18	63626	9.8919 ng/ml

TS



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.540	14857	14550.68	67.5	3081.61	78125	9.9170 ng/ml
Diphenhydramine	5.276	78388	3516.99	34.3	1498.78	401413	10.4624 ng/ml
Doxylamine	4.514	112540	1380.42	97.5	435.45	479229	10.3903 ng/ml
EDDP	5.242	25209	2133.08	43.2	11890.89	143199	9.7618 ng/ml
Fentanyl	5.063	1506	219.07	78.7	4321.86	77420	0.9069 ng/ml
Fluoxetine	5.701	13366	2086.20	10.2	2277.13	53635	9.9201 ng/ml
Hydrocodone	3.004	16141	51.91	40.4	294.45	86730	10.4917 ng/ml
Hydromorphone	1.601	12152	668.14	77.1	193.37	43911	9.7174 ng/ml
Ketamine	4.027	37862	3079.03	36.3	841.29	172644	9.7567 ng/ml
Lamotrigine	4.262	3973	237.33	80.5	1723.18	172644	9.6535 ng/ml
Lorazepam	5.727	2216	70.05	54.6	19.14	3177	6.7736 ng/ml
Meprobamate	4.890	6936	∞	28.1	46.80	31092	9.4835 ng/ml
Methadone	5.647	39179	∞	49.4	3858.41	176771	10.8932 ng/ml
Methamphetamine	3.203	55759	71.80	42.5	308.56	211410	9.5360 ng/ml
Metoprolol	4.307	12551	1832.12	91.2	∞	433478	10.1372 ng/ml
Mirtazapine	4.596	46403	2872.03	46.1	∞	210846	8.9733 ng/ml
Mitragynine	5.198	6017	5766.97	40.8	6358.86	176771	6.8567 ng/ml
Morphine	1.246	2772	4049.34	25.0	171.50	3537	9.5117 ng/ml
Norbuprenorphine	4.973	273	74.00	94.3	131.00	9616	1.0665 ng/ml
Nordiazepam	5.888	3231	7206.59	59.1	5579.03	10199	9.3822 ng/ml
Norfentanyl	4.069	6147	117.26	37.2	433.74	264073	0.9669 ng/ml
Norhydrocodone	3.053	3350	70.76	41.4	101.43	109367	9.1498 ng/ml
Noroxycodone	2.894	9827	108.96	49.2	114.40	35082	9.6595 ng/ml
O-desmethyl-tramadol	3.358	94805	3465.46	6.3	462.10	421554	9.7732 ng/ml
Oxazepam	5.744	2947	14.27	36.6 Low	15.28	10269	15.1258 ng/ml
Oxycodone	2.813	26788	85.02	31.4	67.67	105060	10.0924 ng/ml
Oxymorphone	1.396	8427	1101.92	47.8	611.03	31466	9.6988 ng/ml
Phentermine	3.759	18157	166.10	4.0	24.33	180909	9.9722 ng/ml
Promethazine	5.532	24590	1099.14	30.5	735.85	103769	10.2788 ng/ml
Quetiapine	5.528	39733	37121.20	58.8	25324.60	53037	10.3087 ng/ml
Sertraline	5.770	6988	342.69	94.3	449.80	28598	9.2922 ng/ml
Temazepam	5.805	11003	122.50	30.5	50.65	50900	9.2913 ng/ml
Tramadol	4.227	95412	5251.36	3.4	136.08	433478	9.9657 ng/ml
Trazodone	5.097	24050	239.58	80.2	868.59	100184	9.7038 ng/ml
Venlafaxine	5.024	74568	3524.99	38.8	487.84	358430	10.2963 ng/ml
Zolpidem	4.860	82926	11322.93	31.6	4142.46	395720	9.6176 ng/ml

Outside curve range. TS

Outside curve range. TS

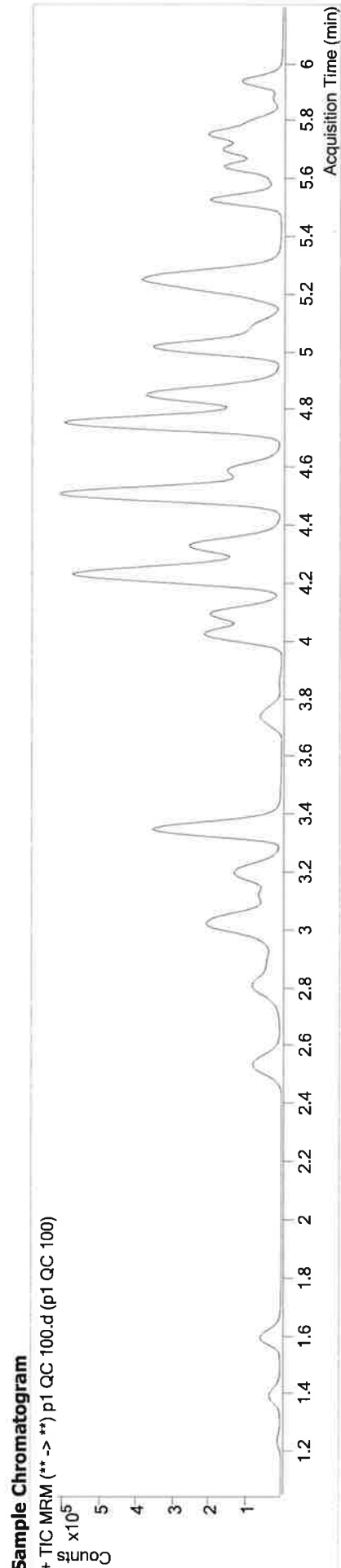
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AM #28 Multi-Drug Quant. Results

Batch results Calibration Last Update D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wklist 3502 TS.batch.bin 6/25/2019 11:30:48 AM

Instrument Type Falco QC
Acq. Method MDQ P1 Combined 011619.m
Sample Position P2-G11
Injection Volume 1
Acq. Date-Time 6/25/2019 12:26:02 AM
Sample Info. p1 QC 100.d
p1 QC 100



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.123	19493	1736.58	70.8	540.89	65310	8.3216 ng/ml
7-aminoclonazepam	4.239	101313	276.34	80.2	6273.12	42143	96.8122 ng/ml
a-hydroxyalprazolam	5.679	28139	2127.46	65.2	343.86	14014	92.3000 ng/ml
alpha-PVP	4.345	393020	∞	51.7	5605.22	179251	90.3548 ng/ml
Alprazolam	5.763	186032	3508.41	102.0	857.07	53615	89.2485 ng/ml
Amphetamine	3.035	398588	6843.63	55.4	8385.29	57972	89.8734 ng/ml
Buprenorphine	3.862	10205	1191.48	7.7	982.88	4033	93.4105 ng/ml
Bupropion	5.767	8574	∞	17.5	627.29	35840	8.4354 ng/ml
Carisoprodol	4.760	1176401	111267.70	59.2	1665.67	391523	93.9916 ng/ml
Citalopram	5.711	160998	28791.22	55.4	1499.79	83132	92.8133 ng/ml
Clonazepam	5.200	152753	9481.63	41.3	136440.06	67282	87.5277 ng/ml
Cocaine	5.592	17377	2844.63	33.9	333.90	2556	107.5050 ng/ml
Codeine	4.245	377291	54583.41	43.5	390123.62	372849	86.2418 ng/ml
Cyclobenzaprine	2.563	48098	845.33	101.3	1202.59	21824	91.4444 ng/ml
Dextromethorphan	5.615	72332	1772.58	10.0	312.83	17338	85.6683 ng/ml
Dextrorphan	5.249	72334	20479.09	78.2	769.89	36424	85.5572 ng/ml
Diazepam	4.101	144932	4868.79	205.7	28807.06	160955	92.0068 ng/ml
	5.949	128240	615.34	88.3	611.13	57271	94.5517 ng/ml

TS



AM #28 Multi-Drug Quant. Results

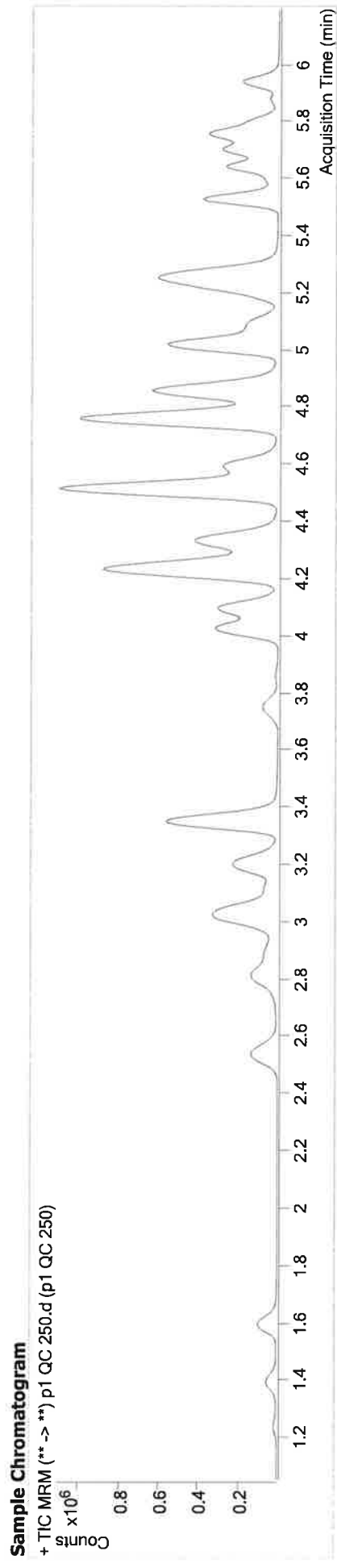
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.534	127604	57063.58	68.9	25467.01	71719	93.1404 ng/ml
Diphenhydramine	5.276	446939	84772.78	34.4	2062.58	232644	89.1385 ng/ml
Doxylamine	4.514	949104	160137.07	98.0	46778.56	415506	87.4111 ng/ml
EDDP	5.242	333701	36117.09	42.5	27587.03	181587	83.1141 ng/ml
Fentanyl	5.063	6658	321.27	74.4	2652.40	34722	8.6416 ng/ml
Fluoxetine	5.701	37409	864.14	9.6	1390.69	15228	80.8328 ng/ml
Hydrocodone	3.004	142103	∞	40.2	1463.82	81683	94.0397 ng/ml
Hydromorphone	1.601	106376	1331.94	74.8	∞	38633	93.3576 ng/ml
Ketamine	4.027	318938	∞	37.4	1693.35	152837	90.4230 ng/ml
Lamotrigine	4.262	33425	1717.37	79.3	1227.56	152837	96.2030 ng/ml
Lorazepam	5.734	19131	938.10	60.1	67.28	2556	107.1970 ng/ml
Meprobamate	4.884	60672	2774.96	28.3	∞	29334	87.6091 ng/ml
Methadone	5.647	199292	1526.67	52.1	1396.93	94684	91.7595 ng/ml
Methamphetamine	3.210	362502	3896.55	41.3	∞	147283	91.3646 ng/ml
Metoprolol	4.307	103583	∞	92.1	∞	399148	91.5452 ng/ml
Mirtazapine	4.596	310328	109837.02	48.0	30164.96	179251	70.0770 ng/ml
Mitragynine	5.198	30170	65367.72	39.6	21430.63	94684	73.9282 ng/ml
Morphine	1.240	24245	2521.94	23.6	979.51	2994	84.2978 ng/ml
Norbuprenorphine	4.966	1240	458.86	105.1	471.07	5503	8.8924 ng/ml
Nordiazepam	5.888	30166	2217.61	57.3	∞	9524	90.1945 ng/ml
Norfentanyl	4.069	50576	5449.06	36.5	648.26	219661	8.9643 ng/ml
Norhydrocodone	3.053	42390	927.29	43.1	257.02	104604	84.7655 ng/ml
Noroxycodone	2.894	78636	339.61	50.5	1142.89	30862	87.1174 ng/ml
O-desmethyl-tramadol	3.358	854006	33002.15	6.4	12165.11	390456	91.6249 ng/ml
Oxazepam	5.737	24467	146.20	64.7	52.20	9294	91.1901 ng/ml
Oxycodone	2.813	241184	∞	29.9	1240.47	95724	96.9917 ng/ml
Oxymorphone	1.396	70671	1221.09	48.8	848.05	27026	92.7011 ng/ml
Phentermine	3.759	131937	850.46	3.9	91.57	139410	94.7073 ng/ml
Promethazine	5.532	88597	8366.42	28.6	480.28	36418	88.4640 ng/ml
Quetiapine	5.528	247609	57870.54	59.5	398578.06	33121	97.7496 ng/ml
Sertraline	5.770	19167	390.10	92.8	453.07	7651	93.6791 ng/ml
Temazepam	5.805	100866	6039.69	29.5	179.52	46263	88.8350 ng/ml
Tramadol	4.220	796264	68383.41	3.5	7485.76	399148	93.3815 ng/ml
Trazodone	5.097	133215	35943.09	77.3	5420.33	54505	92.6906 ng/ml
Venlafaxine	5.024	636915	41235.94	38.0	∞	312555	86.8548 ng/ml
Zolpidem	4.860	761853	66136.71	31.1	129019.41	362454	93.5088 ng/ml



AM #28 Multi-Drug Quant. Results

Batch results Calibration Last Update D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st 3502 TS.batch.bin
6/25/2019 11:30:48 AM

Instrument Type Data File
QC p1 QC 250.d
Acq. Method MDQ P1 Combined 011619.m
Sample Position P2-F11
Injection Volume 1
Acq. Date-Time 6/25/2019 12:46:58 AM
Sample Info.



Name	RT	Resp.	S/N	Ratio	ISTD Resp.	Final Conc.
6-MAM	3.123	37778	1345.84	70.6	51001	20.5711 ng/ml
7-aminoclonazepam	4.239	182032	20756.05	80.6	31520	232.5708 ng/ml
a-hydroxyalprazolam	5.679	55038	972.57	64.2	11183	225.8268 ng/ml
alpha-PVP	4.345	748525	90271.59	51.7	138384	222.0543 ng/ml
Alprazolam	5.763	350153	1394.73	104.3	41290	215.1523 ng/ml
Amphetamine	3.035	670075	14108.71	55.1	41009	213.5249 ng/ml
Benzoyllecgonine	3.862	19992	797.79	7.4	3167	221.2593 ng/ml
Buprenorphine	5.767	14467	∞	16.5	24937	20.1440 ng/ml
Bupropion	4.767	2166401	171314.44	58.9	292336	229.5326 ng/ml
Carisoprodol	5.711	307835	717672.99	56.2	63251	232.5658 ng/ml
Citalopram	5.206	279723	15777.32	42.1	48962	218.0261 ng/ml
Clonazepam	5.592	34369	4170.49	34.7	2219	244.0168 ng/ml
Cocaine	4.245	714152	58266.59	43.9	284653	211.5805 ng/ml
Codeine	2.563	91441	3745.16	100.3	16748	225.0555 ng/ml
Cyclobenzaprine	5.615	103768	22796.50	10.0	17204	209.5116 ng/ml
Dextromethorphan	5.249	134018	409.40	79.4	27243	211.2440 ng/ml
Dextropropphan	4.101	271136	6819.80	206.9	120630	227.3989 ng/ml
Diazepam	5.949	244179	7142.97	87.4	44014	233.7286 ng/ml

TS



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.534	247890	71539.88	67.7	∞	56311	230.5099 ng/ml
Diphenhydramine	5.276	824046	18174.02	34.2	2844.51	172575	219.2378 ng/ml
Doxylamine	4.514	1873172	159783.66	97.5	332047.64	329853	214.9886 ng/ml
EDDP	5.242	645356	54348.21	42.1	1742.01	140210	205.1771 ng/ml
Fentanyl	5.070	13545	1150.30	74.7	20632.06	29136	20.9020 ng/ml
Fluoxetine	5.701	106006	873.43	9.0	14637.16	17576	195.6636 ng/ml
Hydrocodone	3.004	263540	∞	41.0	∞	64615	219.8204 ng/ml
Hydromorphone	1.601	199413	1532.57	76.6	∞	30806	218.9728 ng/ml
Ketamine	4.027	621258	143364.10	36.9	1724.00	119769	224.3440 ng/ml
Lamotrigine	4.269	62887	6132.97	79.1	14940.40	119769	231.7134 ng/ml
Lorazepam	5.734	38693	1331.56	55.5	68.61	2219	254.4829 ng/ml
Meprobamate	4.890	115509	12980.36	28.1	1667.01	22660	215.8645 ng/ml
Methadone	5.647	386766	∞	51.3	5574.27	74771	223.4983 ng/ml
Methamphetamine	3.210	661251	4992.93	41.5	2414.74	109459	224.6660 ng/ml
Metoprolol	4.307	192009	29259.21	91.6	∞	299913	225.9722 ng/ml
Mirtazapine	4.596	579795	297723.63	48.0	122078.94	138384	169.4862 ng/ml
Mitragynine	5.198	58927	13053.80	38.5	26567.82	74771	184.5665 ng/ml
Morphine	1.240	45604	1304.90	23.5	5709.93	2259	207.9770 ng/ml
Norbuprenorphine	4.973	2261	544.82	100.8	1399.02	4028	22.2470 ng/ml
Nordiazepam	5.888	56660	8225.87	58.7	1794.23	7649	210.3890 ng/ml
Norfentanyl	4.069	103625	2611.36	36.0	1879.10	181557	22.1221 ng/ml
Norhydrocodone	3.053	93328	560.75	43.0	351.33	84493	225.9239 ng/ml
Noroxycodone	2.894	156076	∞	48.3	215.57	23536	226.5828 ng/ml
O-desmethyl-tramadol	3.358	1673059	125749.87	6.4	3219.94	306011	228.4445 ng/ml
Oxazepam	5.737	45717	170.24	71.4	55.40	7314	208.5224 ng/ml
Oxycodone	2.813	459021	1757.20	31.6	∞	78837	223.7321 ng/ml
Oxymorphone	1.396	137421	1873.06	48.0	∞	20956	232.1287 ng/ml
Phentermine	3.759	236016	4393.61	4.0	515.96	104082	227.0337 ng/ml
Promethazine	5.525	205057	1480.71	28.9	5341.85	34591	212.9152 ng/ml
Quetiapine	5.528	491872	172170.96	60.1	69043.30	27052	236.9218 ng/ml
Sertraline	5.777	55111	∞	91.0	1236.31	9202	223.7281 ng/ml
Temazepam	5.805	195084	2412.83	29.3	233.65	36377	217.7256 ng/ml
Tramadol	4.227	1506115	88520.88	3.5	6651.56	299913	235.6477 ng/ml
Trazodone	5.097	277217	18427.87	79.6	199831.34	45837	228.3789 ng/ml
Venlafaxine	5.024	1213567	80765.45	38.4	1933.10	238303	214.6701 ng/ml
Zolpidem	4.860	1478397	95820.84	31.2	2939.83	287492	228.2959 ng/ml

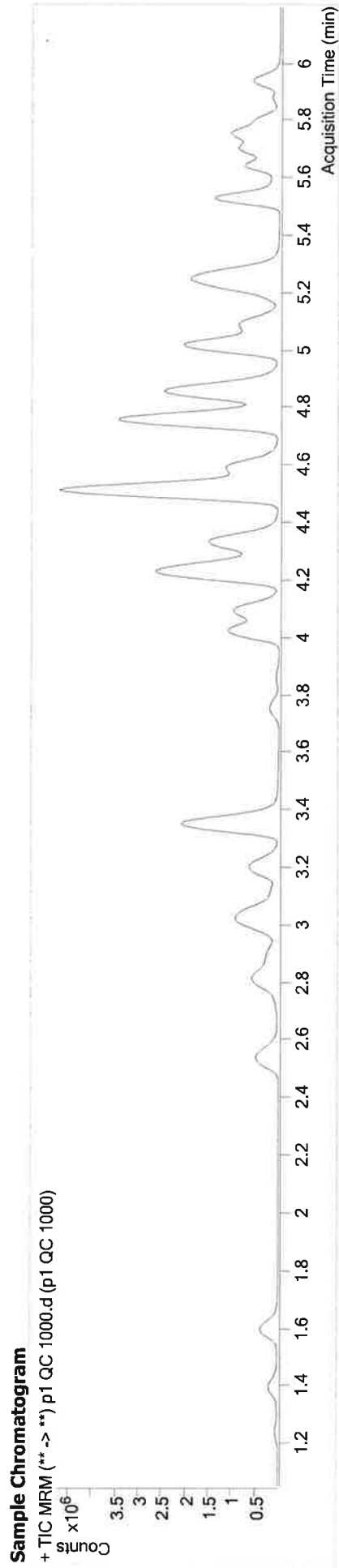
TS



AM #28 Multi-Drug Quant. Results

Batch results Calibration Last Update D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wklist 3502 TS.batch.bin 6/25/2019 11:30:48 AM

Instrument Type: Falco QC
Acq. Method: MDQ P1 Combined
Sample Position: P2-E11
Injection Volume: 1
Acq. Date-Time: 6/25/2019 1:07:56 AM
Data File: p1 QC 1000.d
Sample Operator Comment: p1 QC 1000



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.123	167318	3904.46	72.3	2336.83	53866	86.0849 ng/ml
7-aminoclonazepam	4.232	428962	8532.73	81.5	65883.79	23207	744.4010 ng/ml
a-hydroxalprazolam	5.679	254997	2104.83	64.9	620.64	12545	931.7599 ng/ml
alpha-PVP	4.345	3068919	138193.19	51.5	66497.00	140015	898.0358 ng/ml
Alprazolam	5.763	1242107	∞	102.2	7009.65	36069	867.3552 ng/ml
Amphetamine	3.041	1703800	48005.36	54.8	25053.93	30720	724.6807 ng/ml
Benzoylcegonine	3.862	114315	3227.15	7.6	3830.89	4222	922.8997 ng/ml
Buprenorphine	5.773	26807	2885.63	16.4	651.24	10684	86.3915 ng/ml
Bupropion	4.767	7896805	611345.89	59.4	277793.93	274069	887.9405 ng/ml
Carisoprodol	5.711	1204734	∞	55.4	4265.21	63860	900.2067 ng/ml
Citalopram	5.200	805365	90623.42	41.5	1579.83	36416	839.7872 ng/ml
Clonazepam	5.592	178008	6416.96	34.1	∞	2715	1030.4247 ng/ml
Cocaine	4.245	2735779	244026.13	43.9	395382.30	277587	826.7238 ng/ml
Codeine	2.570	341280	5912.78	100.8	2039.86	16704	839.4279 ng/ml
Cyclobenzaprine	5.615	159385	54913.21	10.2	2309.31	6721	819.4637 ng/ml
Dextromethorphan	5.249	361403	25977.73	78.2	1658.43	18203	851.1479 ng/ml
Dextrorphan	4.101	963721	14569.82	206.8	25480.83	109199	888.4412 ng/ml
Diazepam	5.949	887493	13253.98	88.5	6253.05	41267	905.0265 ng/ml

TS



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.534	997471	111525.86	68.1	86107.68	64322	812.1291 ng/ml
Diphenhydramine	5.276	2547539	175021.46	34.2	66771.72	133893	868.9259 ng/ml
Doxylamine	4.514	8611200	832730.55	95.9	318366.55	383682	845.0518 ng/ml
EDDP	5.242	2853396	239362.41	42.4	124603.00	153933	815.1126 ng/ml
Fentanyl	5.070	33473	3649.62	77.0	445.54	17213	87.3313 ng/ml
Fluoxetine	5.701	80899	6163.34	8.9	4906.98	3438	757.9261 ng/ml
Hydrocodone	2.997	1131402	∞	41.2	∞	69487	876.1016 ng/ml
Hydromorphone	1.601	860064	2291.62	76.4	∞	34457	843.2993 ng/ml
Ketamine	4.027	2643714	13960.73	36.9	11781.00	134110	851.7983 ng/ml
Lamotrigine	4.269	190729	8723.03	79.9	11667.28	134110	628.5068 ng/ml
Lorazepam	5.734	178250	3984.63	58.1	106.42	2715	967.8104 ng/ml
Meprobamate	4.890	462295	80097.57	27.8	11389.44	21031	930.7418 ng/ml
Methadone	5.647	1213671	75920.30	51.4	31027.65	60032	869.5201 ng/ml
Methamphetamine	3.210	1866980	15166.31	41.5	∞	86264	805.6249 ng/ml
Metoprolol	4.307	622064	78491.93	91.6	∞	306847	715.7378 ng/ml
Mirtazapine	4.596	2384301	521752.66	47.9	168358.86	140015	688.6329 ng/ml
Mitragynine	5.198	128951	2484.21	39.0	∞	60032	505.0605 ng/ml
Morphine	1.246	169920	∞	23.6	815.17	2275	765.3932 ng/ml
Norbuprenorphine	4.966	5840	767.83	99.9	493.84	2509	92.4648 ng/ml
Nordiazepam	5.888	239325	9208.93	57.9	4490.75	8230	824.7542 ng/ml
Norfentanyl	4.062	442347	8148.33	36.5	50367.04	184803	92.5588 ng/ml
Norhydrocodone	3.053	457322	∞	43.3	2534.15	82577	1120.8236 ng/ml
Noroxycodone	2.894	611995	∞	48.7	1878.39	24716	845.7901 ng/ml
O-desmethyl-tramadol	3.357	7282807	250748.50	6.5	25681.17	338629	897.4806 ng/ml
Oxazepam	5.737	212376	906.55	71.3	159.01	8930	777.1035 ng/ml
Oxycodone	2.813	2040082	∞	31.3	293.48	87878	891.1348 ng/ml
Oxymorphone	1.396	560044	7776.53	49.1	1361.02	22925	864.1553 ng/ml
Phentermine	3.759	724968	11248.48	4.0	667.17	89371	812.3707 ng/ml
Promethazine	5.525	317394	7290.30	29.3	7798.28	13388	845.9712 ng/ml
Quetiapine	5.528	2313985	206032.18	60.5	7746.14	31156	966.0040 ng/ml
Sertraline	5.777	25067	1438.49	93.0	1103.76	1099	851.8747 ng/ml
Temazepam	5.805	856231	20155.91	29.2	898.59	37742	919.3012 ng/ml
Tramadol	4.220	5619399	224337.65	3.6	2153.39	306847	860.3495 ng/ml
Trazodone	5.097	1588185	1748.91	79.0	60203.51	55767	1072.9516 ng/ml
Venlafaxine	5.024	5147433	222197.62	38.4	37617.66	252560	854.3619 ng/ml
Zolpidem	4.860	6588363	71841.88	30.8	∞	343678	850.1658 ng/ml

Outside curve range

Outside curve range

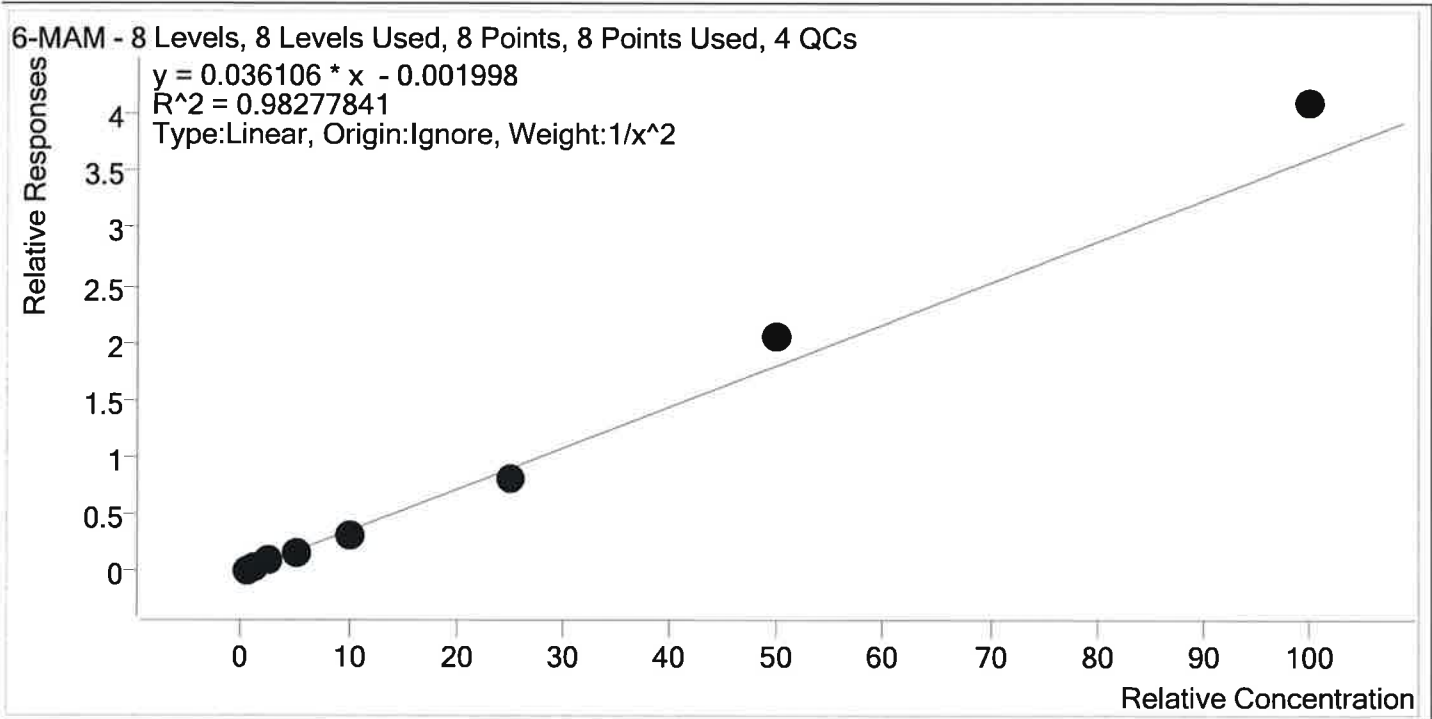
Outside curve range

Outside curve range



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st
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Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte 6-MAM **Internal Standard** 6-MAM-D6

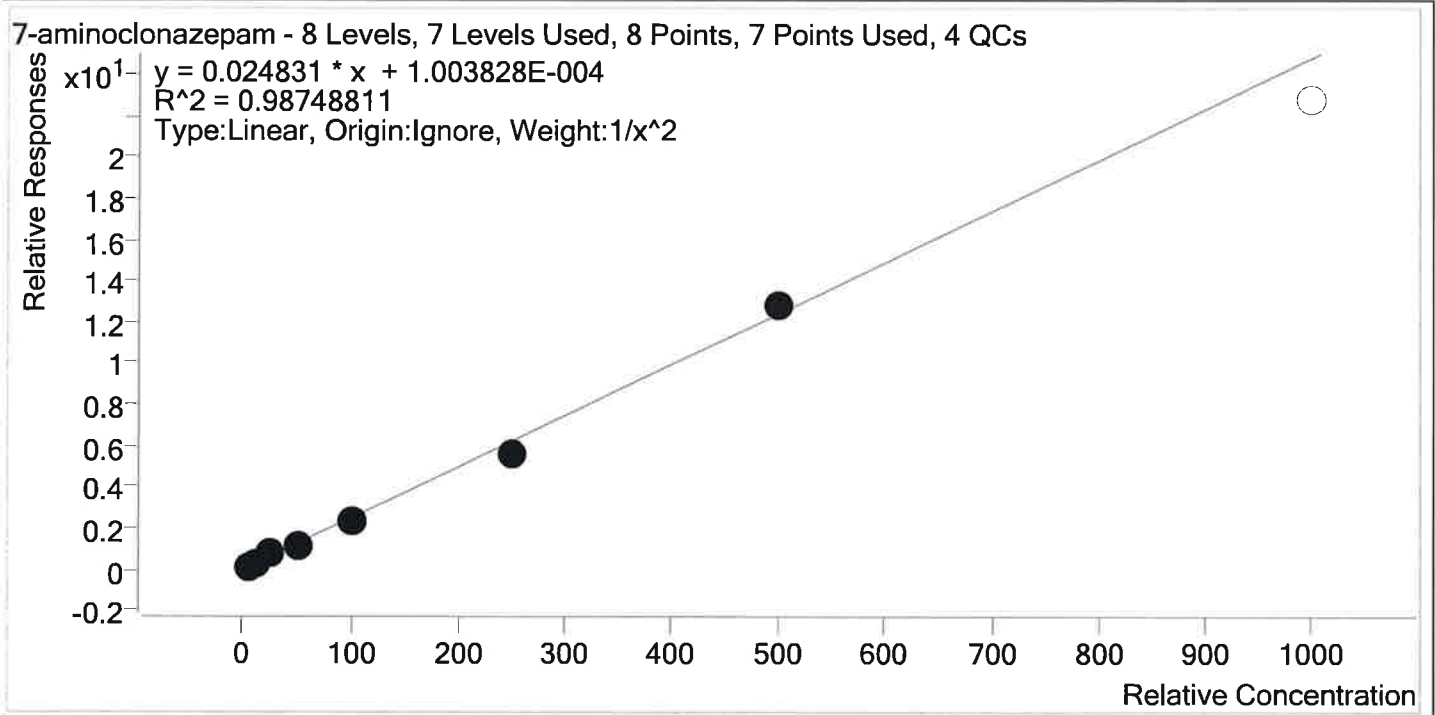


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	102.1
p1 Cal 2- 10ng	2	✓	1.0	1.0	95.0
p1 Cal 3 -25ng r	3	✓	2.5	2.8	110.5
p1 Cal 4-50ng	4	✓	5.0	4.5	89.3
p1 Cal 5-100ng	5	✓	10.0	8.7	86.6
p1 Cal 6-250ng	6	✓	25.0	22.3	89.2
p1 Cal 7-500ng	7	✓	50.0	57.0	113.9
p1 Cal 8-1000ng	8	✓	100.0	113.4	113.4



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st
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Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte 7-aminoclonazepam **Internal Standard** 7-Aminoclonazepam-D4

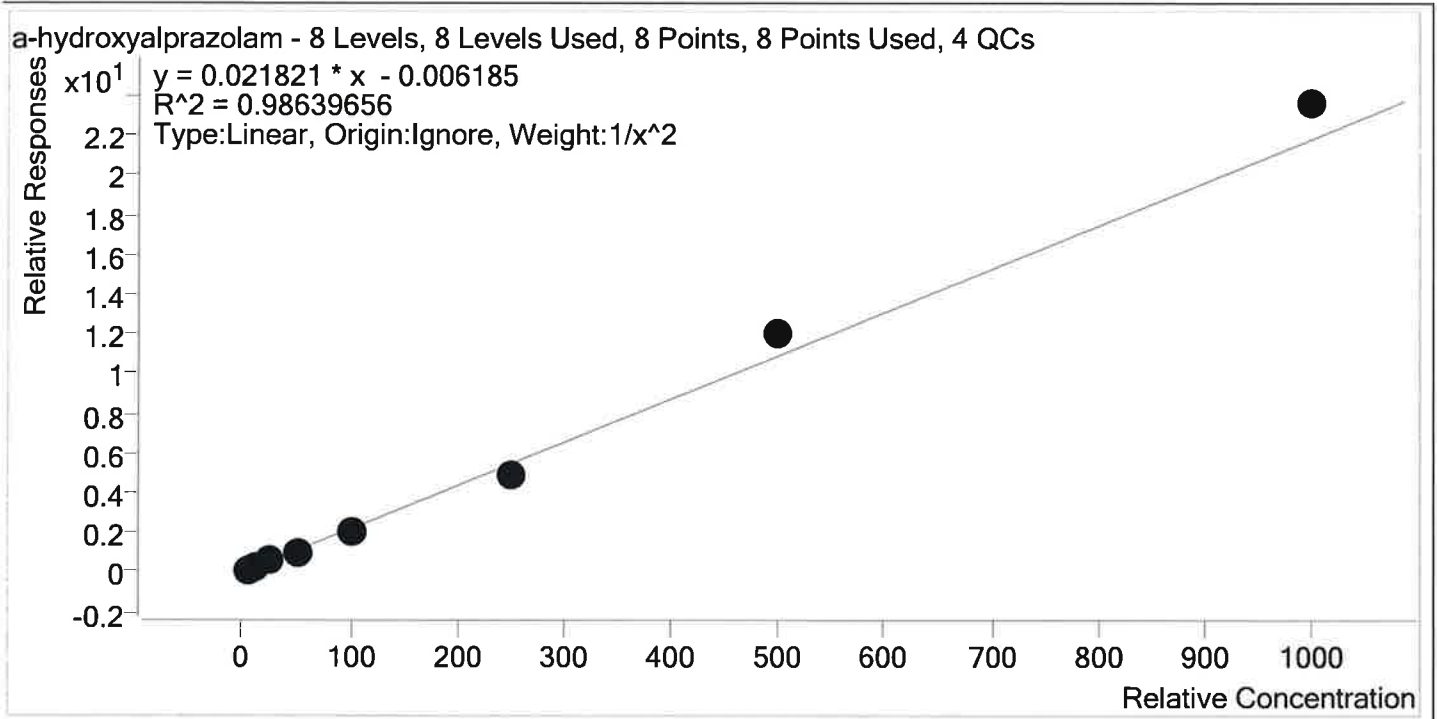


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.6
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.0
p1 Cal 3 -25ng r	3	✓	25.0	29.8	119.2
p1 Cal 4-50ng	4	✓	50.0	47.2	94.4
p1 Cal 5-100ng	5	✓	100.0	96.2	96.2
p1 Cal 6-250ng	6	✓	250.0	224.1	89.6
p1 Cal 7-500ng	7	✓	500.0	515.0	103.0
p1 Cal 8-1000ng	8	x	1000.0	917.7	91.8



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st
 3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte a-hydroxyalprazolam **Internal Standard** a-hydroxyalprazolam-D5

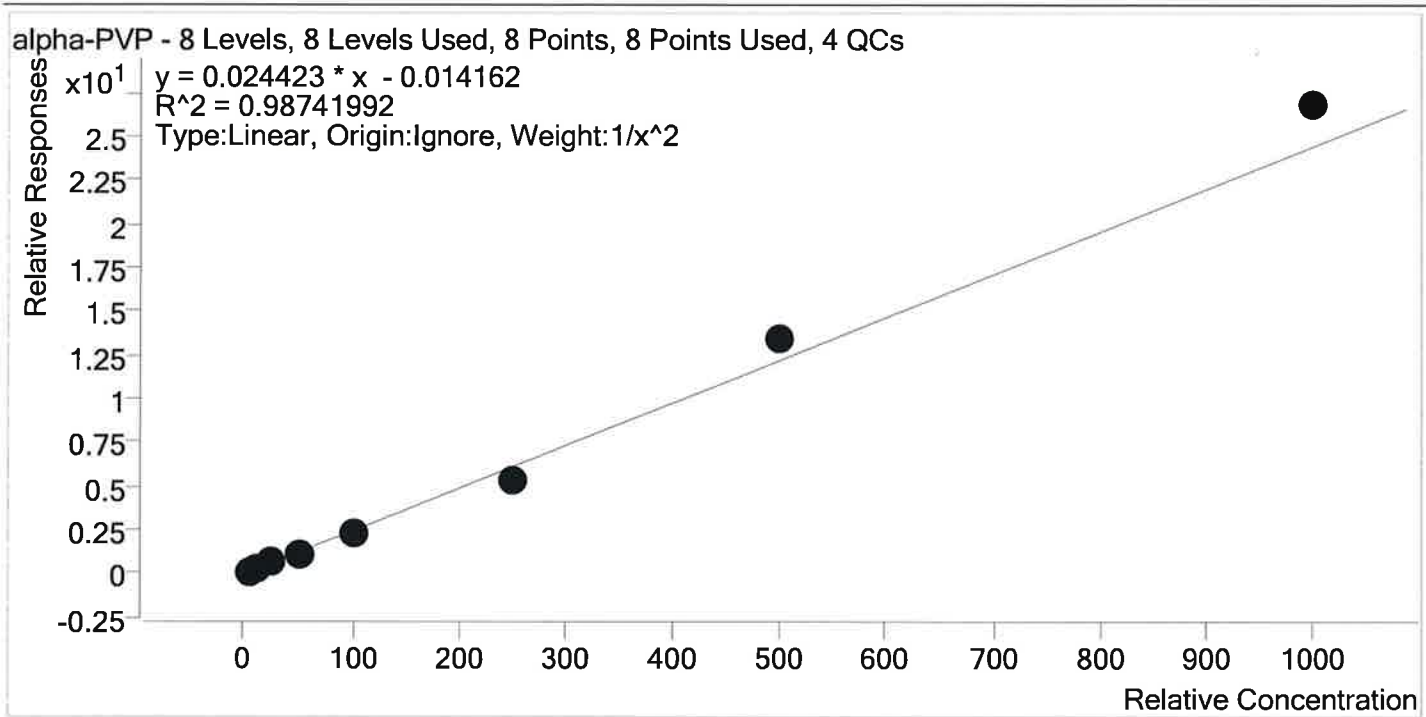


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	102.7
p1 Cal 2- 10ng	2	✓	10.0	9.2	91.9
p1 Cal 3 -25ng r	3	✓	25.0	28.5	114.1
p1 Cal 4-50ng	4	✓	50.0	45.1	90.1
p1 Cal 5-100ng	5	✓	100.0	91.7	91.7
p1 Cal 6-250ng	6	✓	250.0	225.3	90.1
p1 Cal 7-500ng	7	✓	500.0	555.7	111.1
p1 Cal 8-1000ng	8	✓	1000.0	1082.7	108.3



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wklist 3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte alpha-PVP **Internal Standard** alpha-PVP-d8

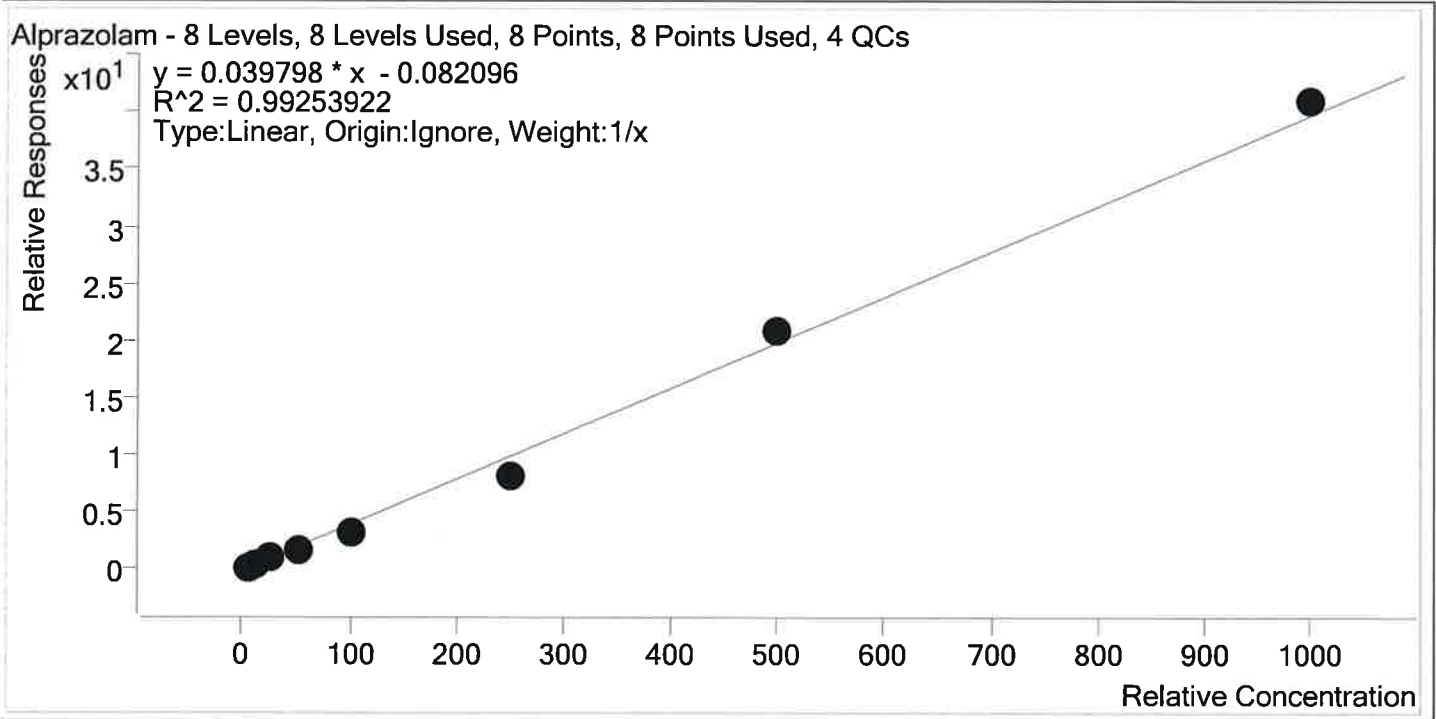


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.9
p1 Cal 2- 10ng	2	✓	10.0	9.8	98.3
p1 Cal 3 -25ng r	3	✓	25.0	28.1	112.3
p1 Cal 4-50ng	4	✓	50.0	45.2	90.4
p1 Cal 5-100ng	5	✓	100.0	91.3	91.3
p1 Cal 6-250ng	6	✓	250.0	219.5	87.8
p1 Cal 7-500ng	7	✓	500.0	551.5	110.3
p1 Cal 8-1000ng	8	✓	1000.0	1097.2	109.7



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st
 3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte Alprazolam **Internal Standard** Alprazolam-D5

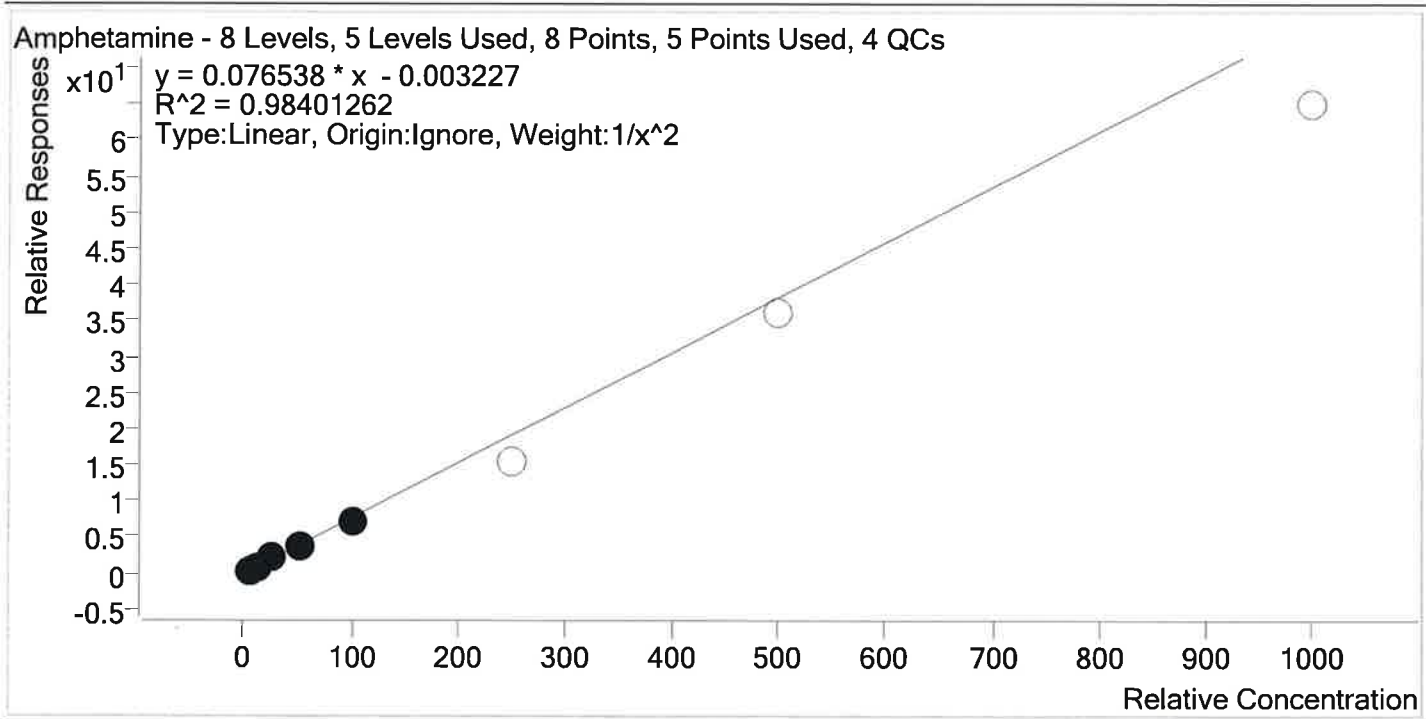


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	6.2	123.1
p1 Cal 2- 10ng	2	✓	10.0	10.3	103.0
p1 Cal 3 -25ng r	3	✓	25.0	27.6	110.3
p1 Cal 4-50ng	4	✓	50.0	43.0	86.0
p1 Cal 5-100ng	5	✓	100.0	85.8	85.8
p1 Cal 6-250ng	6	✓	250.0	207.6	83.0
p1 Cal 7-500ng	7	✓	500.0	528.2	105.6
p1 Cal 8-1000ng	8	✓	1000.0	1031.4	103.1



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st
 3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte Amphetamine **Internal Standard** Amphetamine-D11

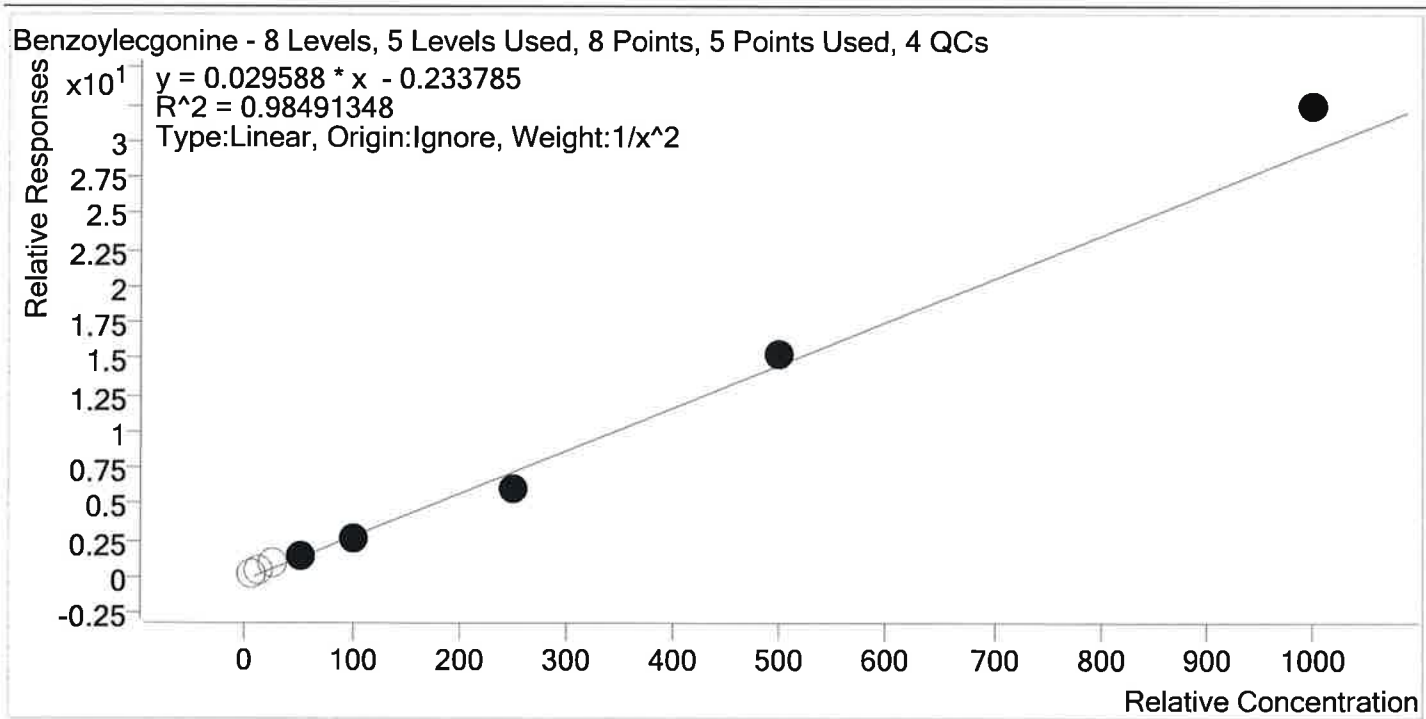


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.9
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.1
p1 Cal 3 -25ng r	3	✓	25.0	29.0	116.1
p1 Cal 4-50ng	4	✓	50.0	46.0	92.1
p1 Cal 5-100ng	5	✓	100.0	92.9	92.9
p1 Cal 6-250ng	6	×	250.0	201.2	80.5
p1 Cal 7-500ng	7	×	500.0	472.4	94.5
p1 Cal 8-1000ng	8	×	1000.0	850.2	85.0



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st
 3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte Benzoyllecgonine **Internal Standard** Benzoyllecgonine-d8

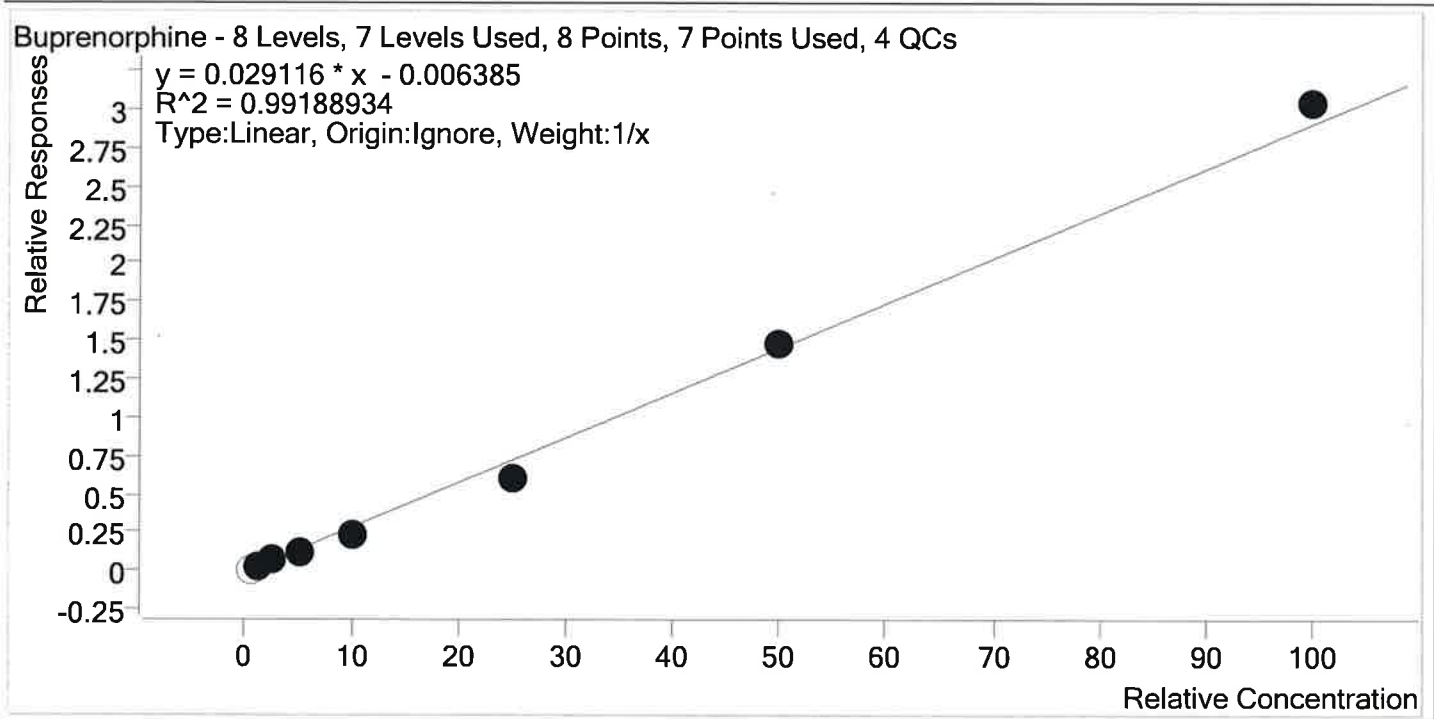


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	x	5.0	15.9	317.0
p1 Cal 2- 10ng	2	x	10.0	23.7	236.8
p1 Cal 3 -25ng r	3	x	25.0	36.4	145.6
p1 Cal 4-50ng	4	✓	50.0	52.1	104.2
p1 Cal 5-100ng	5	✓	100.0	95.3	95.3
p1 Cal 6-250ng	6	✓	250.0	214.6	85.8
p1 Cal 7-500ng	7	✓	500.0	522.3	104.5
p1 Cal 8-1000ng	8	✓	1000.0	1101.5	110.2



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st
 3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte Buprenorphine **Internal Standard** Buprenorphine-D4

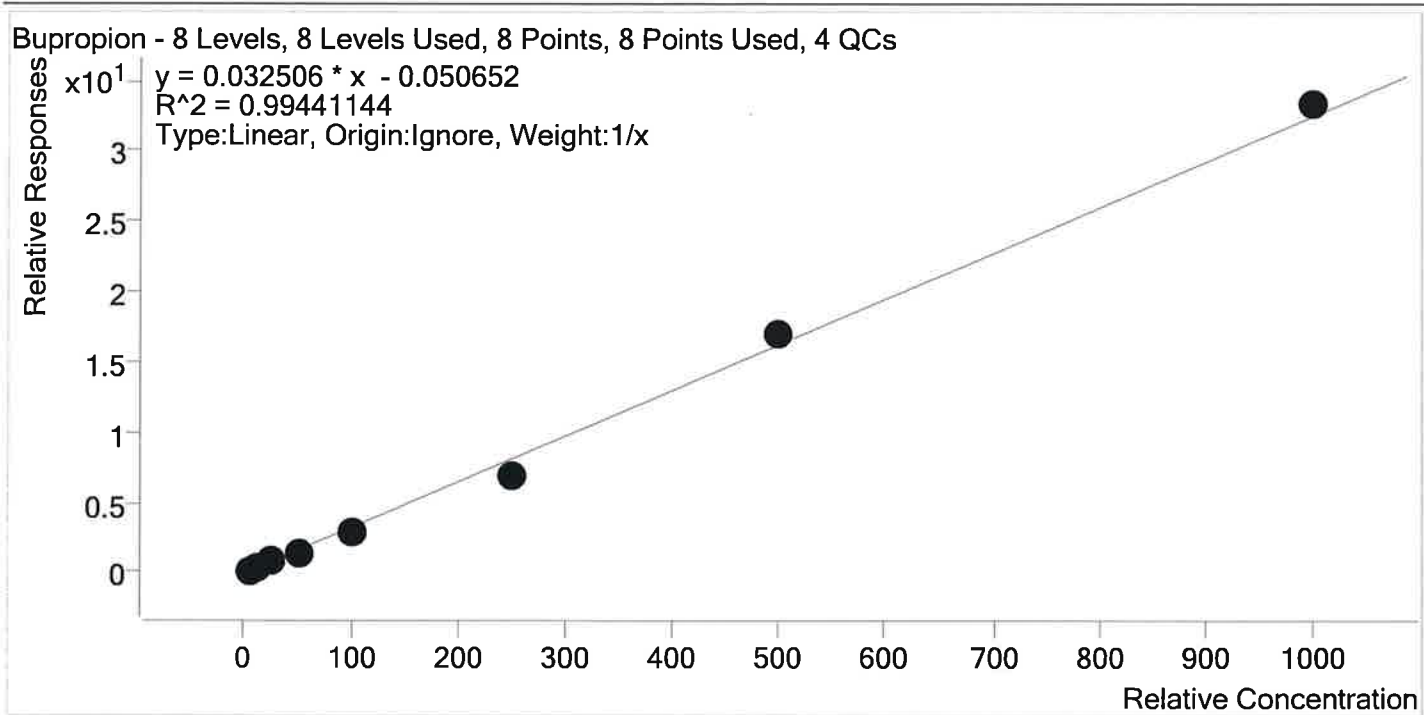


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	x	0.5	0.6	127.2
p1 Cal 2- 10ng	2	✓	1.0	1.3	127.1
p1 Cal 3 -25ng r	3	✓	2.5	2.8	113.4
p1 Cal 4-50ng	4	✓	5.0	4.3	86.5
p1 Cal 5-100ng	5	✓	10.0	8.1	81.1
p1 Cal 6-250ng	6	✓	25.0	21.3	85.1
p1 Cal 7-500ng	7	✓	50.0	51.0	102.1
p1 Cal 8-1000ng	8	✓	100.0	104.6	104.6



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st
 3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte Bupropion **Internal Standard** Bupropion-D9

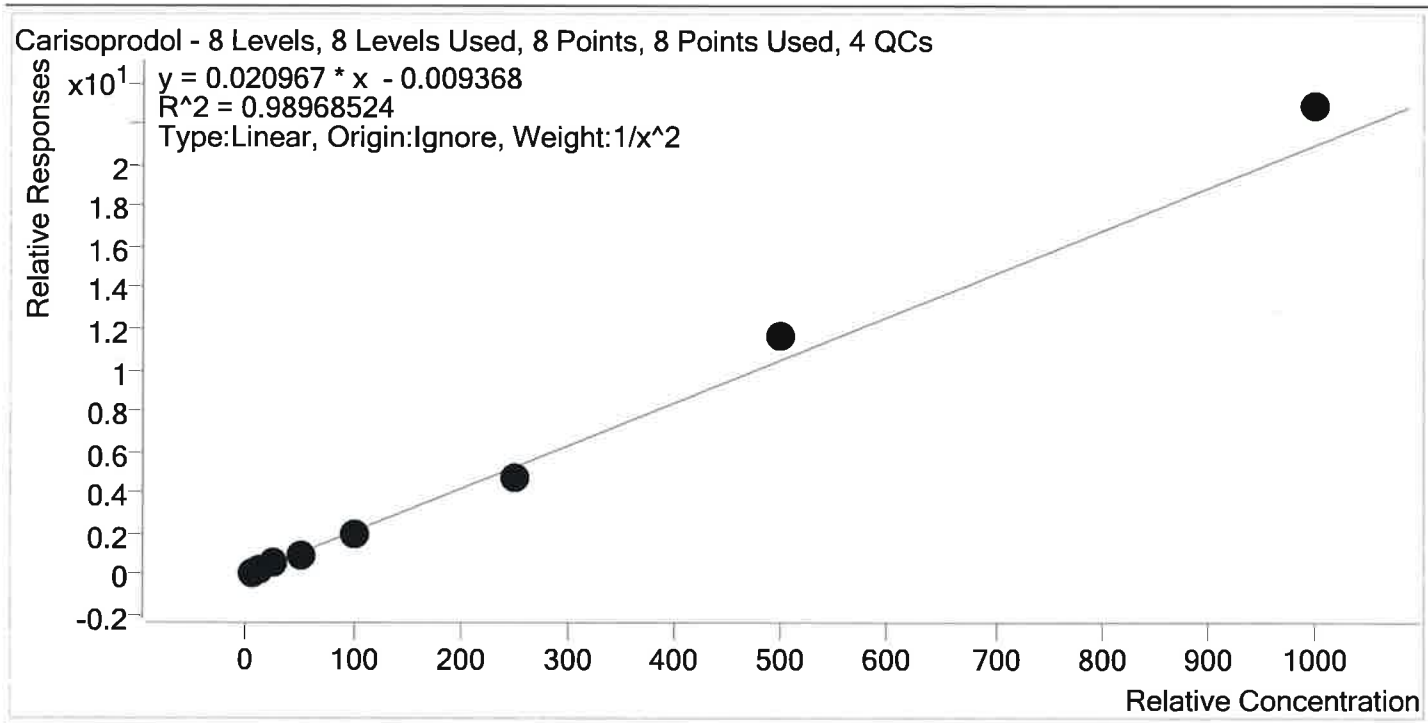


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.9	117.5
p1 Cal 2- 10ng	2	✓	10.0	10.3	103.1
p1 Cal 3 -25ng r	3	✓	25.0	27.7	110.7
p1 Cal 4-50ng	4	✓	50.0	44.1	88.2
p1 Cal 5-100ng	5	✓	100.0	87.8	87.8
p1 Cal 6-250ng	6	✓	250.0	213.2	85.3
p1 Cal 7-500ng	7	✓	500.0	524.3	104.9
p1 Cal 8-1000ng	8	✓	1000.0	1026.7	102.7



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st
 3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte Carisoprodol **Internal Standard** Carisoprodol-D7

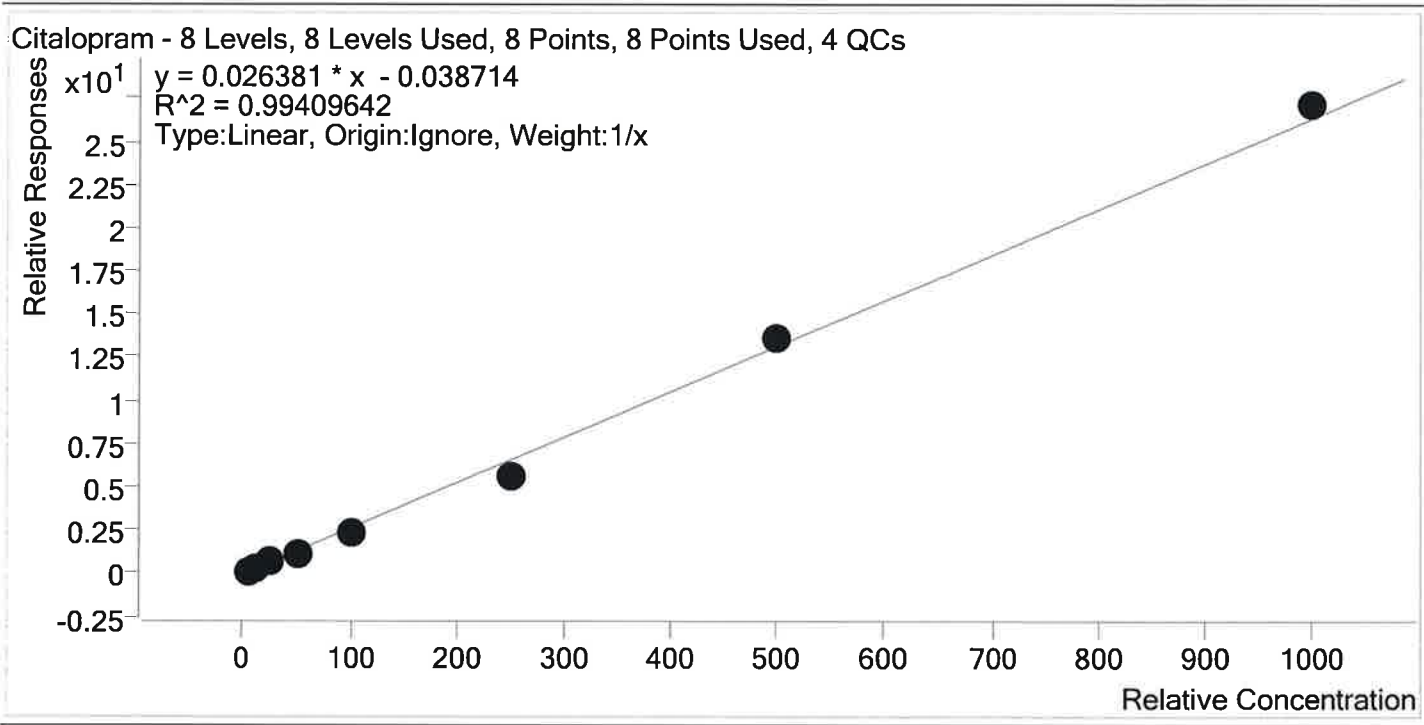


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.4
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.5
p1 Cal 3 -25ng r	3	✓	25.0	27.2	108.9
p1 Cal 4-50ng	4	✓	50.0	45.2	90.5
p1 Cal 5-100ng	5	✓	100.0	91.4	91.4
p1 Cal 6-250ng	6	✓	250.0	223.8	89.5
p1 Cal 7-500ng	7	✓	500.0	553.1	110.6
p1 Cal 8-1000ng	8	✓	1000.0	1090.8	109.1



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st
 3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte Citalopram **Internal Standard** Citalopram-D6

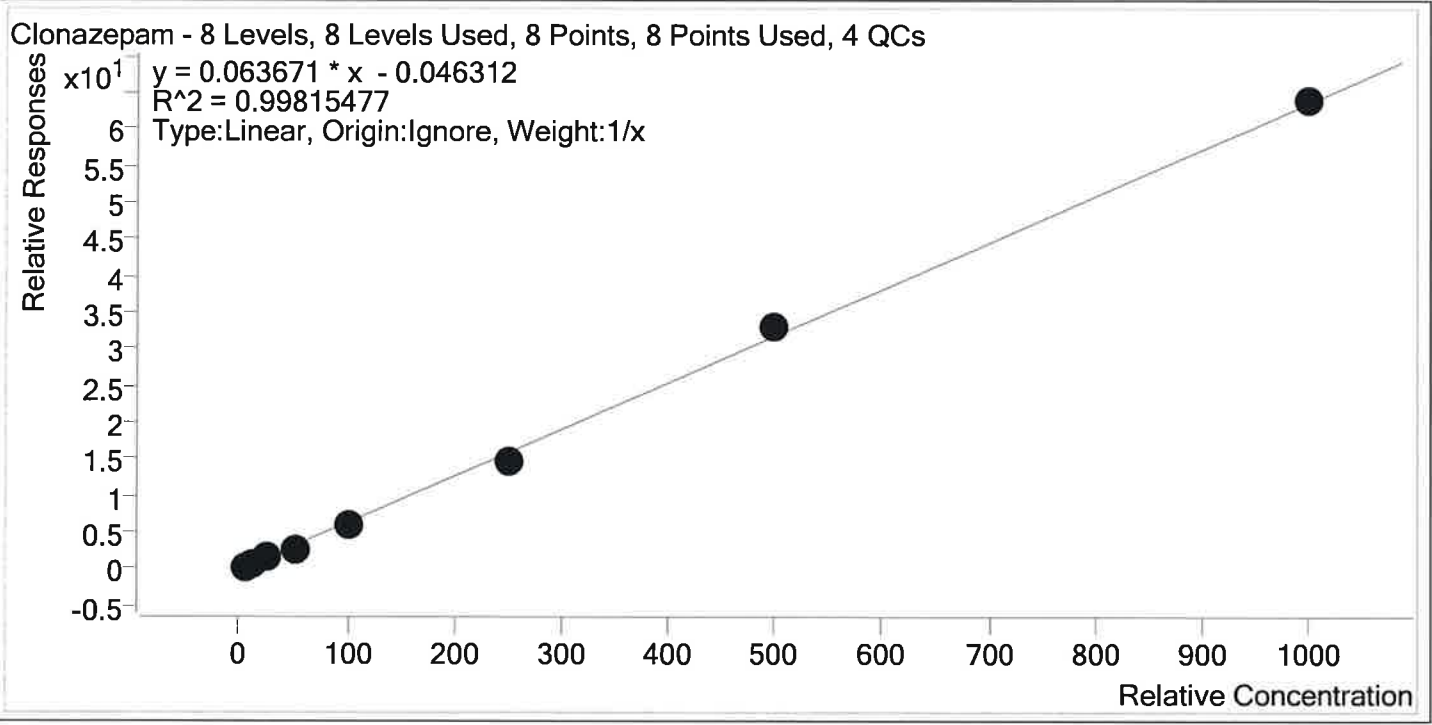


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.7	114.6
p1 Cal 2- 10ng	2	✓	10.0	10.6	106.1
p1 Cal 3 -25ng r	3	✓	25.0	28.0	112.0
p1 Cal 4-50ng	4	✓	50.0	43.5	87.0
p1 Cal 5-100ng	5	✓	100.0	88.3	88.3
p1 Cal 6-250ng	6	✓	250.0	211.6	84.6
p1 Cal 7-500ng	7	✓	500.0	521.9	104.4
p1 Cal 8-1000ng	8	✓	1000.0	1030.4	103.0



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st
 3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte Clonazepam **Internal Standard** Clonazepam-D4

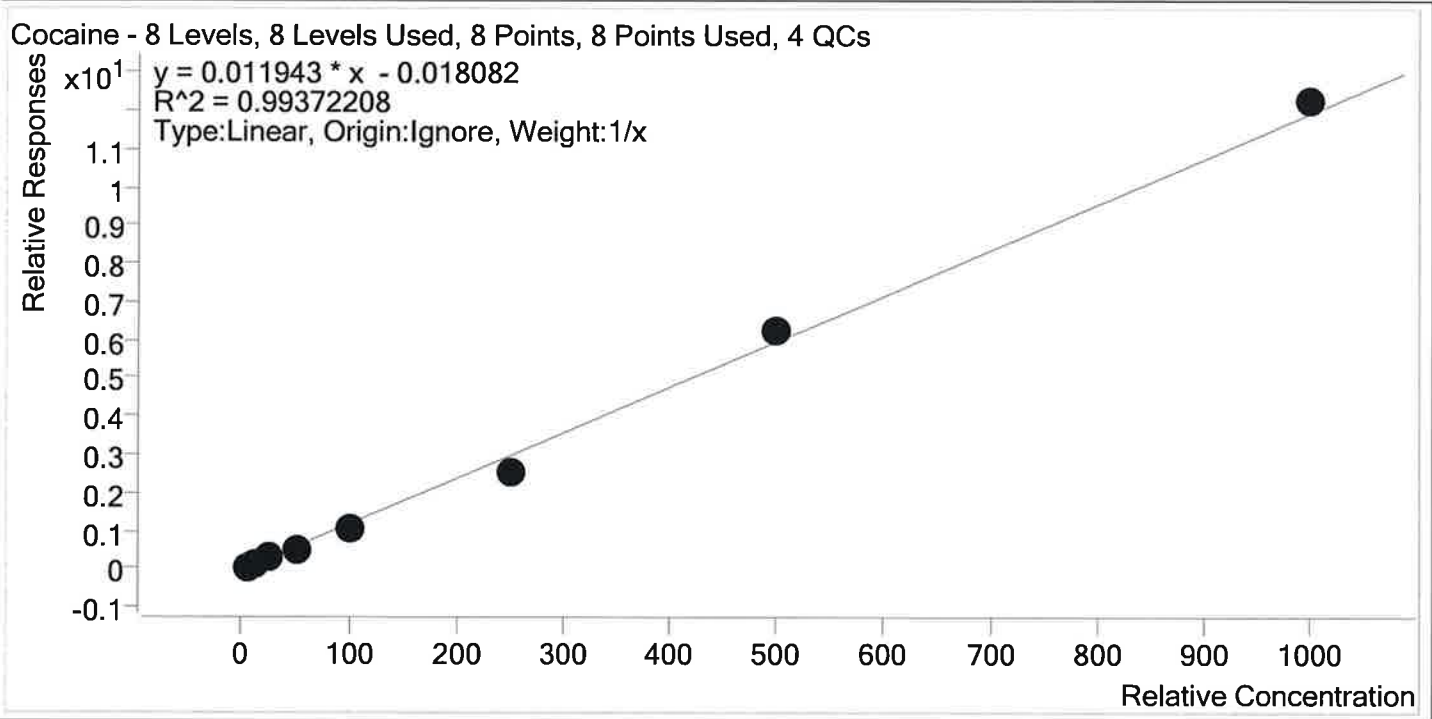


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.4
p1 Cal 2- 10ng	2	✓	10.0	10.6	106.1
p1 Cal 3 -25ng r	3	✓	25.0	28.4	113.4
p1 Cal 4-50ng	4	✓	50.0	43.6	87.3
p1 Cal 5-100ng	5	✓	100.0	95.1	95.1
p1 Cal 6-250ng	6	✓	250.0	233.7	93.5
p1 Cal 7-500ng	7	✓	500.0	518.0	103.6
p1 Cal 8-1000ng	8	✓	1000.0	1005.6	100.6



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st
 3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte Cocaine **Internal Standard** Cocaine-d3

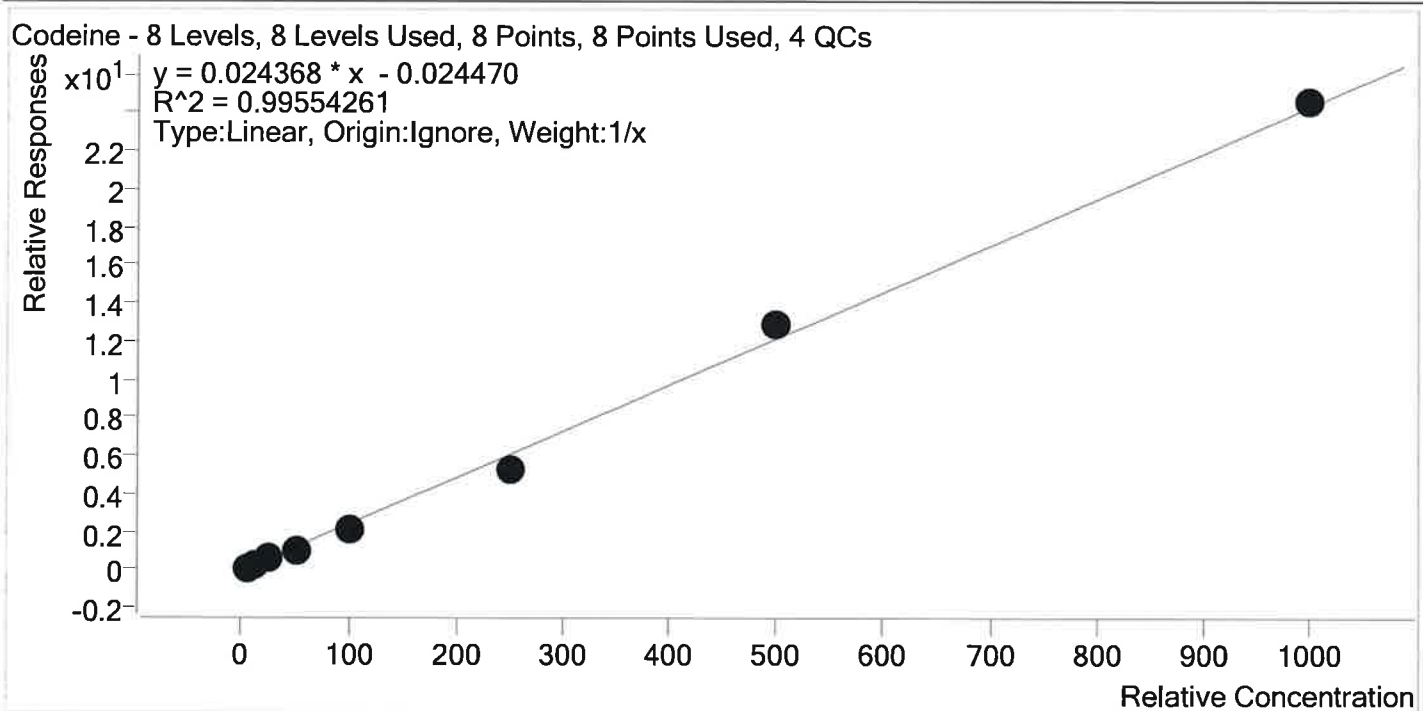


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.9	118.1
p1 Cal 2- 10ng	2	✓	10.0	10.4	104.3
p1 Cal 3 -25ng r	3	✓	25.0	27.7	110.8
p1 Cal 4-50ng	4	✓	50.0	43.7	87.4
p1 Cal 5-100ng	5	✓	100.0	86.9	86.9
p1 Cal 6-250ng	6	✓	250.0	211.2	84.5
p1 Cal 7-500ng	7	✓	500.0	526.4	105.3
p1 Cal 8-1000ng	8	✓	1000.0	1027.8	102.8



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st
 3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte Codeine **Internal Standard** Codeine-D6

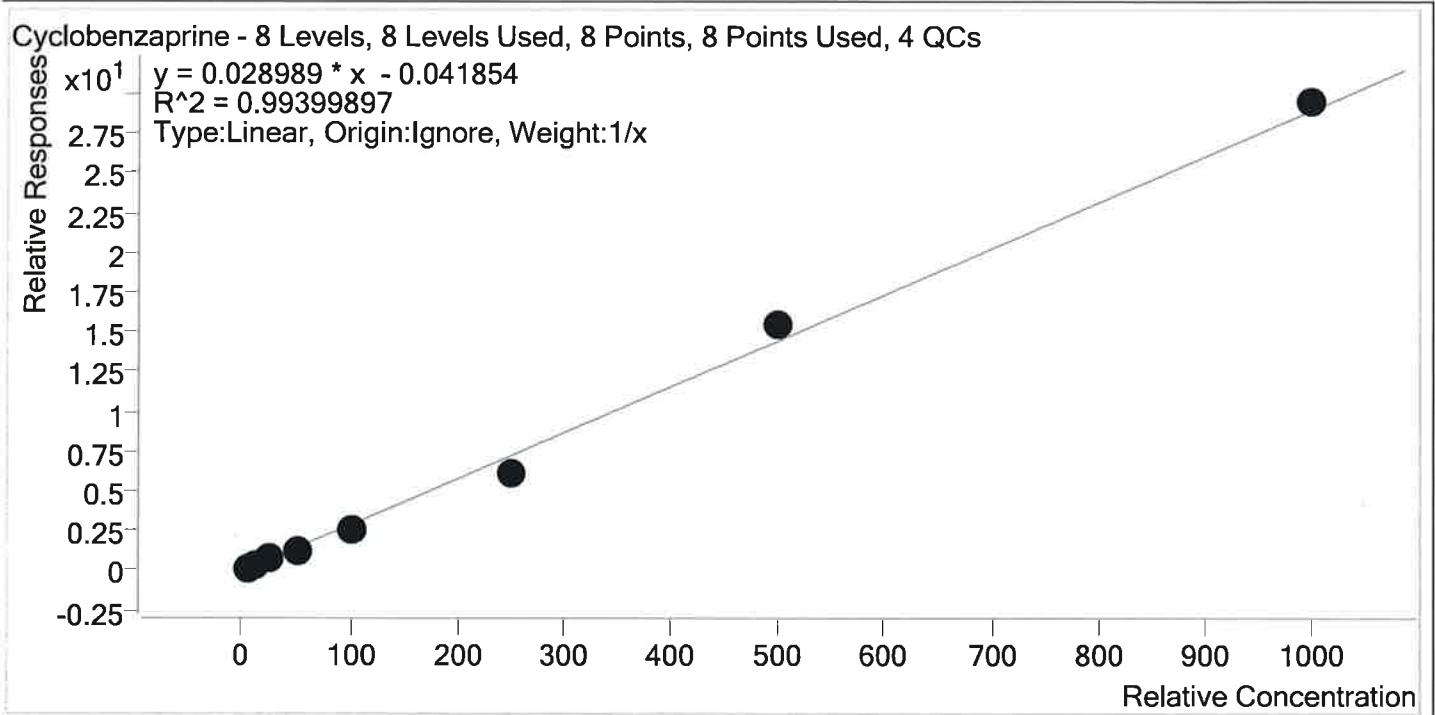


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.5	110.3
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.7
p1 Cal 3 -25ng r	3	✓	25.0	28.4	113.7
p1 Cal 4-50ng	4	✓	50.0	45.1	90.3
p1 Cal 5-100ng	5	✓	100.0	88.6	88.6
p1 Cal 6-250ng	6	✓	250.0	220.0	88.0
p1 Cal 7-500ng	7	✓	500.0	530.8	106.2
p1 Cal 8-1000ng	8	✓	1000.0	1011.3	101.1



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st
 3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte Cyclobenzaprine **Internal Standard** Cyclobenzaprine-D3

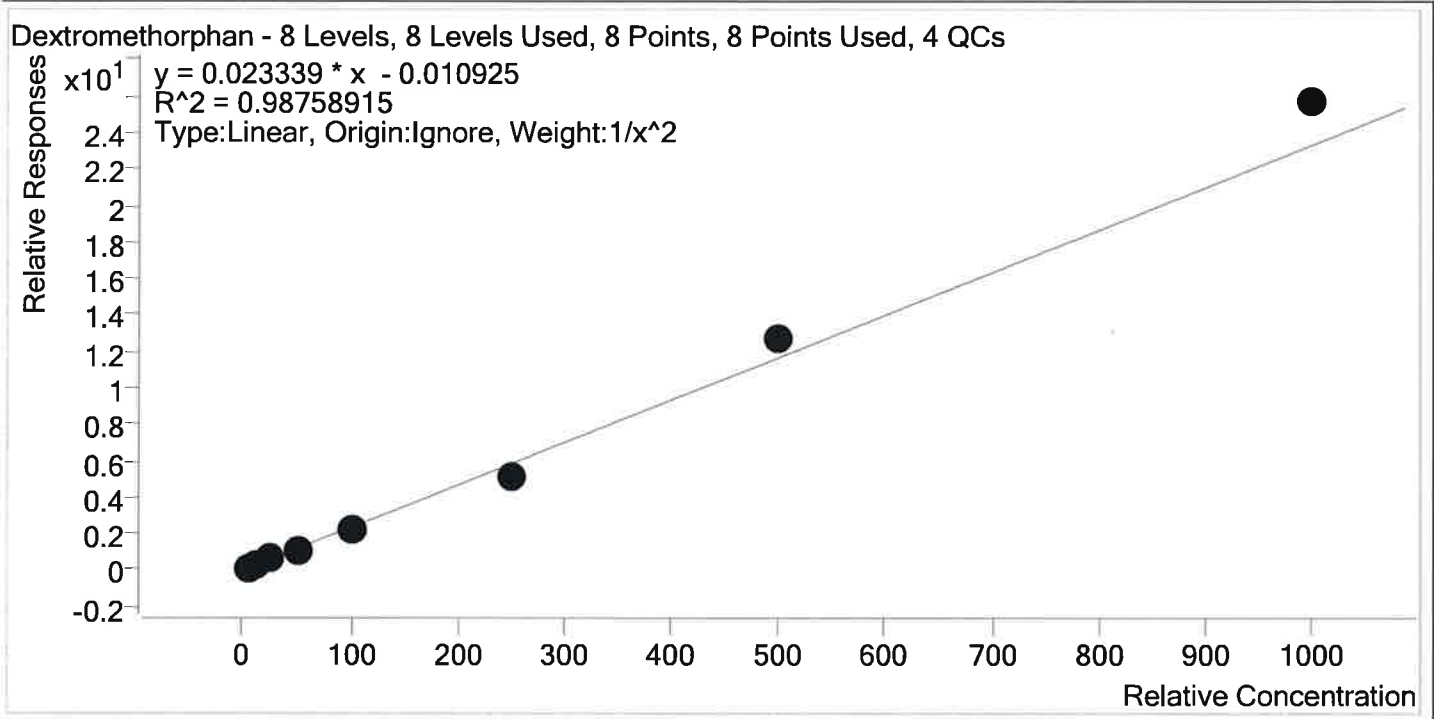


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.8	115.3
p1 Cal 2- 10ng	2	✓	10.0	10.4	104.4
p1 Cal 3 -25ng r	3	✓	25.0	27.6	110.2
p1 Cal 4-50ng	4	✓	50.0	44.2	88.4
p1 Cal 5-100ng	5	✓	100.0	88.6	88.6
p1 Cal 6-250ng	6	✓	250.0	211.8	84.7
p1 Cal 7-500ng	7	✓	500.0	532.4	106.5
p1 Cal 8-1000ng	8	✓	1000.0	1019.2	101.9



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st
 3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte Dextromethorphan **Internal Standard** Dextromethorphan-D3

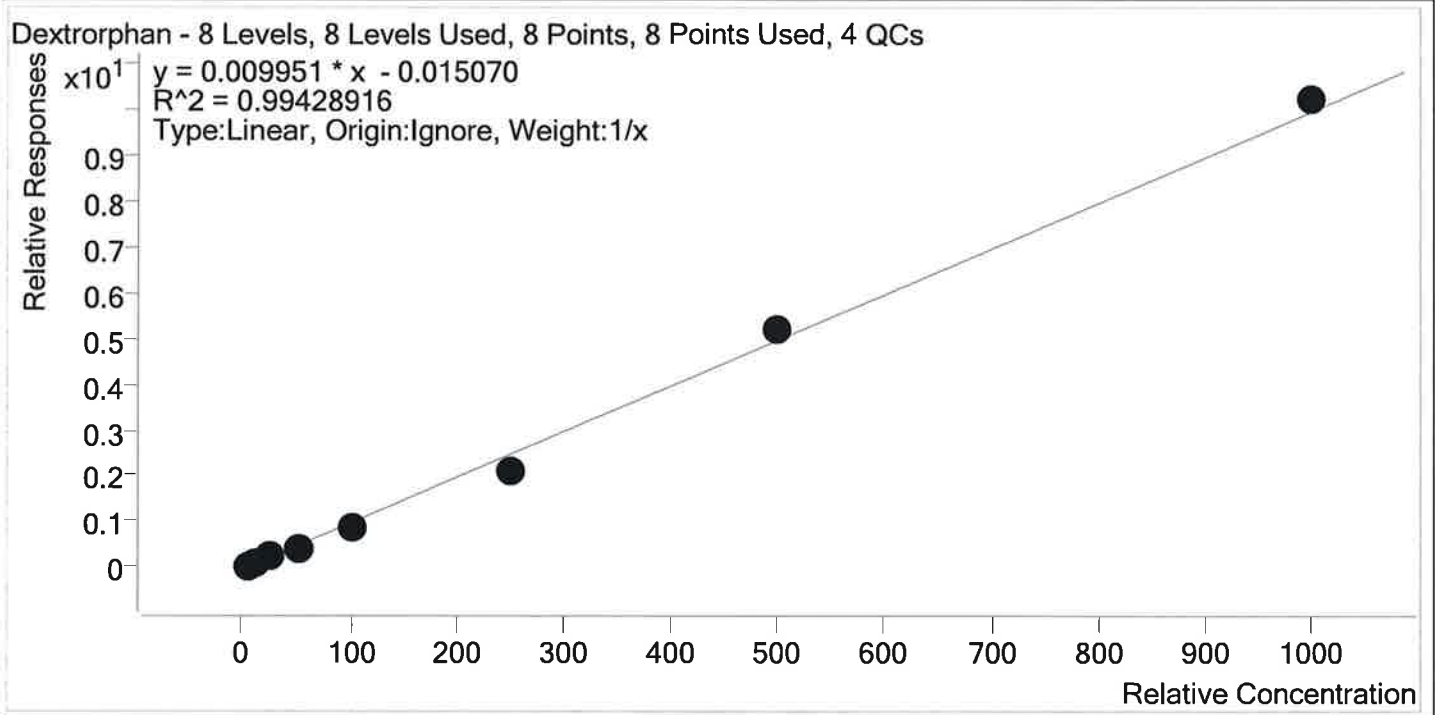


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.7
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.5
p1 Cal 3 -25ng r	3	✓	25.0	27.8	111.1
p1 Cal 4-50ng	4	✓	50.0	44.3	88.6
p1 Cal 5-100ng	5	✓	100.0	92.3	92.3
p1 Cal 6-250ng	6	✓	250.0	219.9	88.0
p1 Cal 7-500ng	7	✓	500.0	548.6	109.7
p1 Cal 8-1000ng	8	✓	1000.0	1102.7	110.3



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st
 3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte Dextrorphan **Internal Standard** Dextrorphan-D3

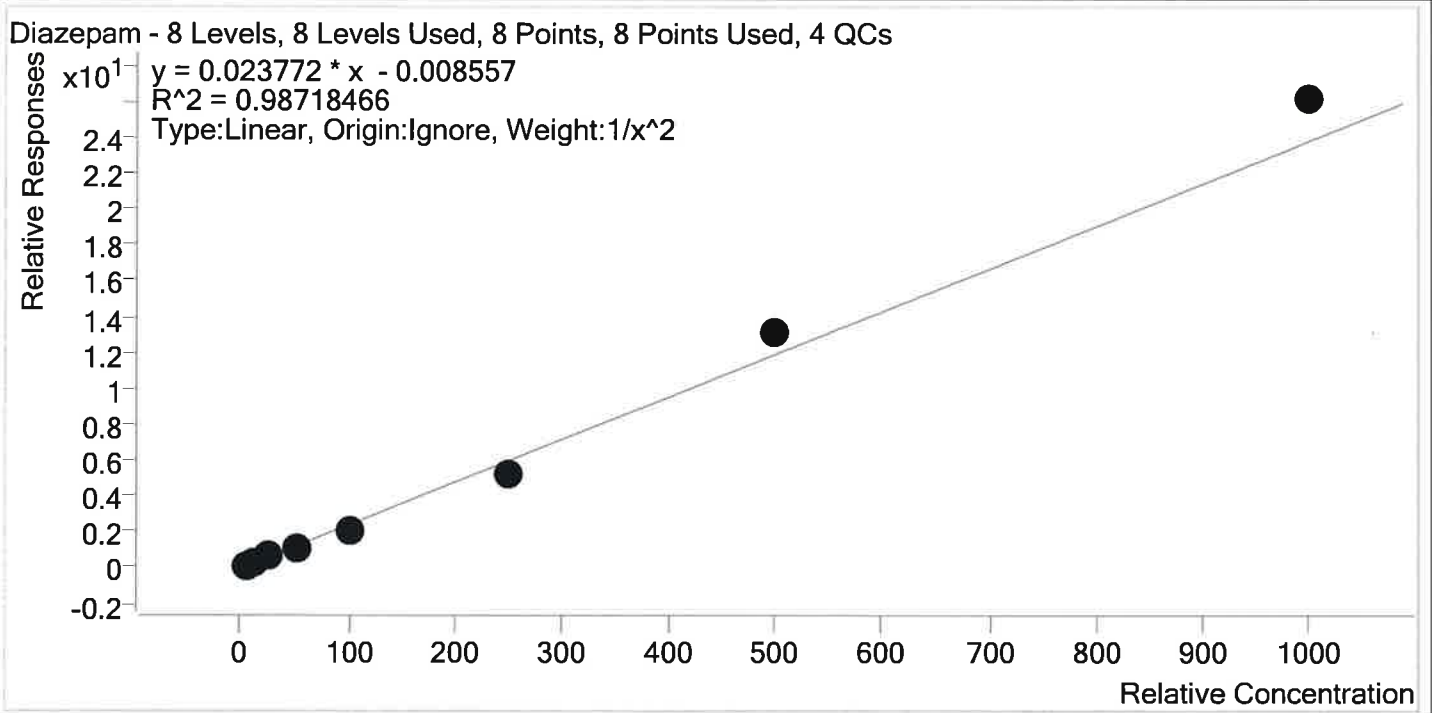


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.8	116.0
p1 Cal 2- 10ng	2	✓	10.0	10.5	104.6
p1 Cal 3 -25ng r	3	✓	25.0	27.8	111.3
p1 Cal 4-50ng	4	✓	50.0	44.0	88.1
p1 Cal 5-100ng	5	✓	100.0	87.1	87.1
p1 Cal 6-250ng	6	✓	250.0	213.2	85.3
p1 Cal 7-500ng	7	✓	500.0	524.0	104.8
p1 Cal 8-1000ng	8	✓	1000.0	1027.5	102.8



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wklist
 3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte Diazepam **Internal Standard** Diazepam-D5

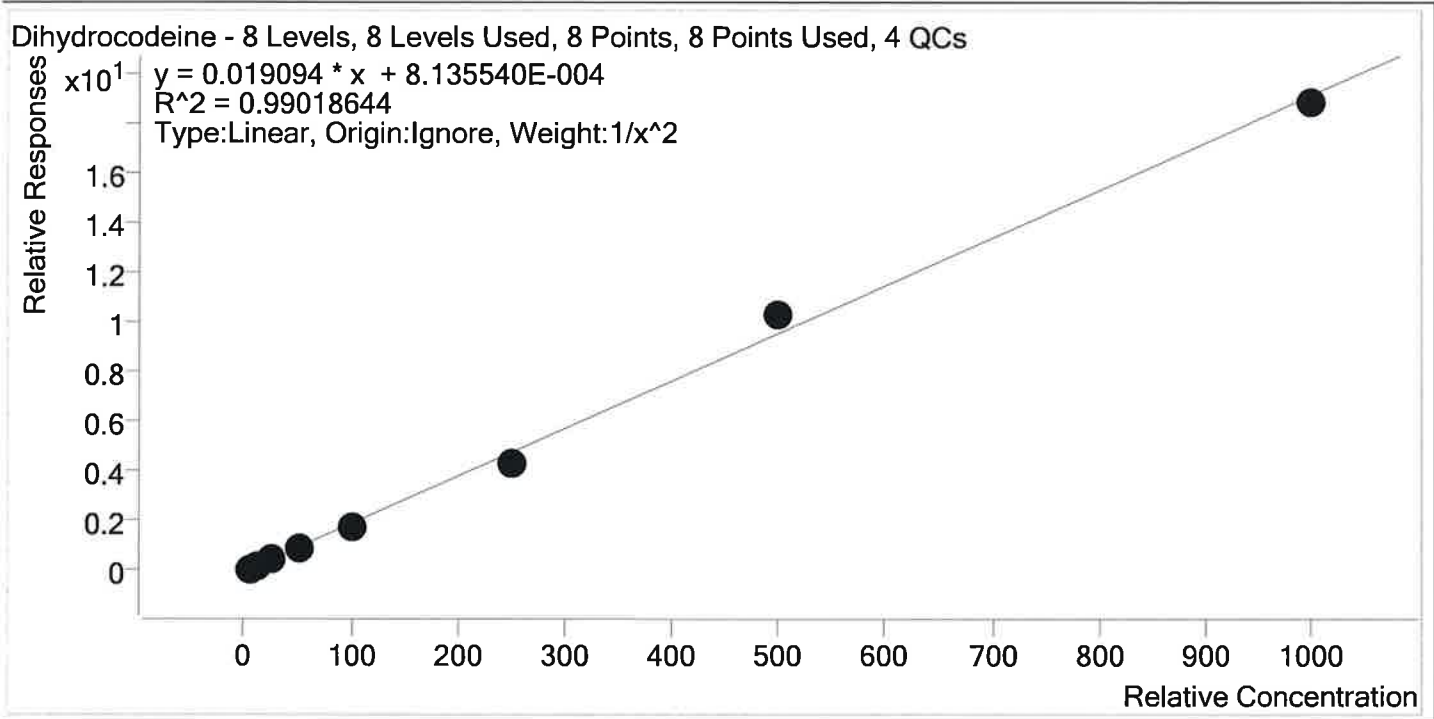


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.5
p1 Cal 2- 10ng	2	✓	10.0	9.5	94.9
p1 Cal 3 -25ng r	3	✓	25.0	28.1	112.3
p1 Cal 4-50ng	4	✓	50.0	45.9	91.7
p1 Cal 5-100ng	5	✓	100.0	90.6	90.6
p1 Cal 6-250ng	6	✓	250.0	221.0	88.4
p1 Cal 7-500ng	7	✓	500.0	553.7	110.7
p1 Cal 8-1000ng	8	✓	1000.0	1099.0	109.9



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st
 3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte Dihydrocodeine **Internal Standard** Dihydrocodeine-D6

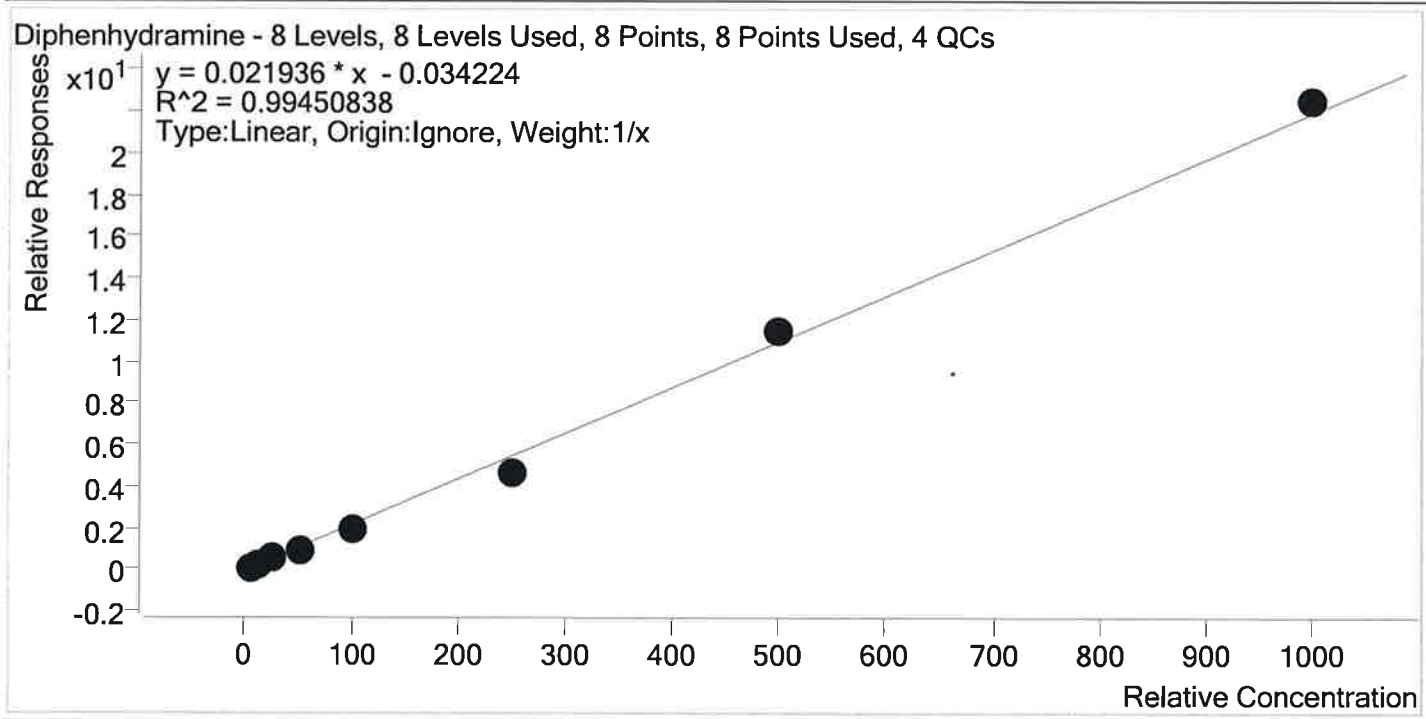


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.8
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.4
p1 Cal 3 -25ng r	3	✓	25.0	29.3	117.0
p1 Cal 4-50ng	4	✓	50.0	47.1	94.3
p1 Cal 5-100ng	5	✓	100.0	95.2	95.2
p1 Cal 6-250ng	6	✓	250.0	223.8	89.5
p1 Cal 7-500ng	7	✓	500.0	536.1	107.2
p1 Cal 8-1000ng	8	✓	1000.0	984.4	98.4



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wklst
 3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte Diphenhydramine **Internal Standard** Diphenhydramine-D3

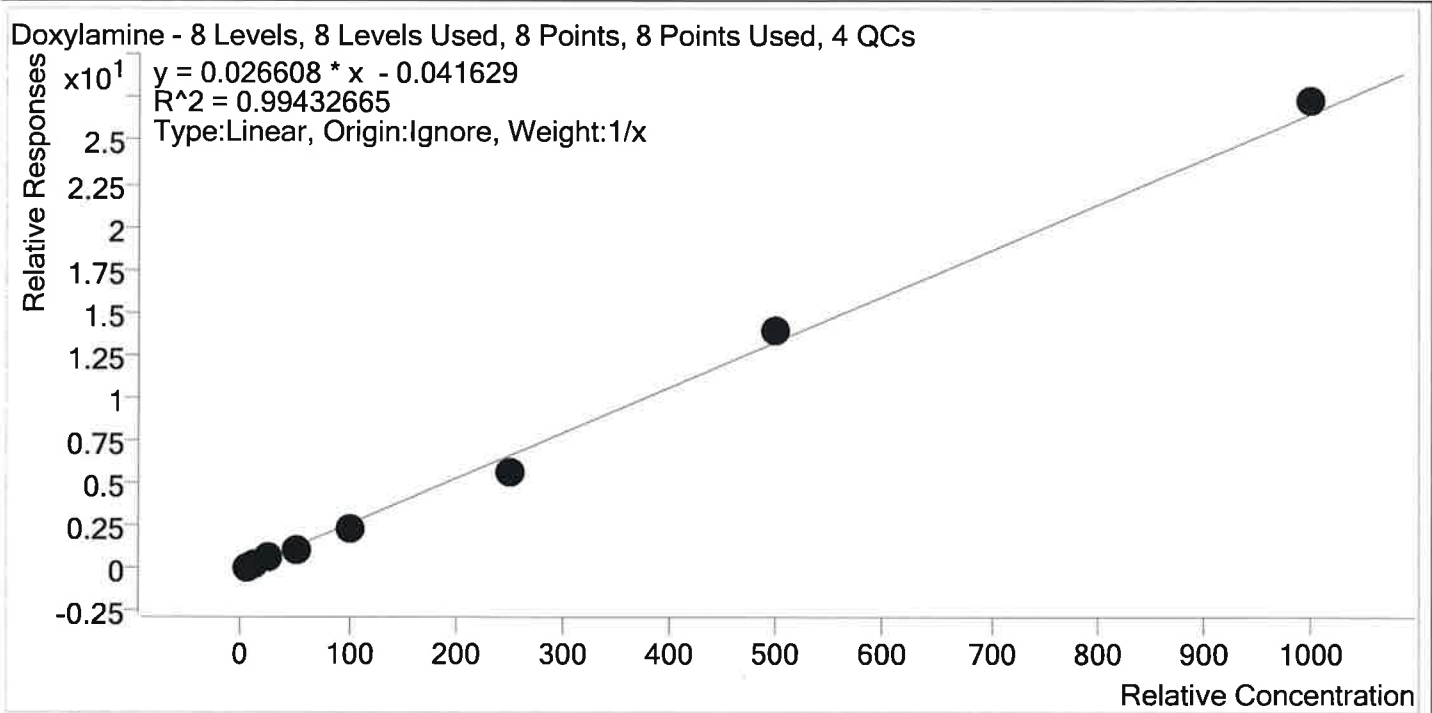


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.8	116.8
p1 Cal 2- 10ng	2	✓	10.0	10.4	104.4
p1 Cal 3 -25ng r	3	✓	25.0	27.6	110.4
p1 Cal 4-50ng	4	✓	50.0	43.9	87.9
p1 Cal 5-100ng	5	✓	100.0	87.3	87.3
p1 Cal 6-250ng	6	✓	250.0	214.2	85.7
p1 Cal 7-500ng	7	✓	500.0	524.3	104.9
p1 Cal 8-1000ng	8	✓	1000.0	1026.3	102.6



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st
 3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte Doxylamine **Internal Standard** Doxylamine-D5

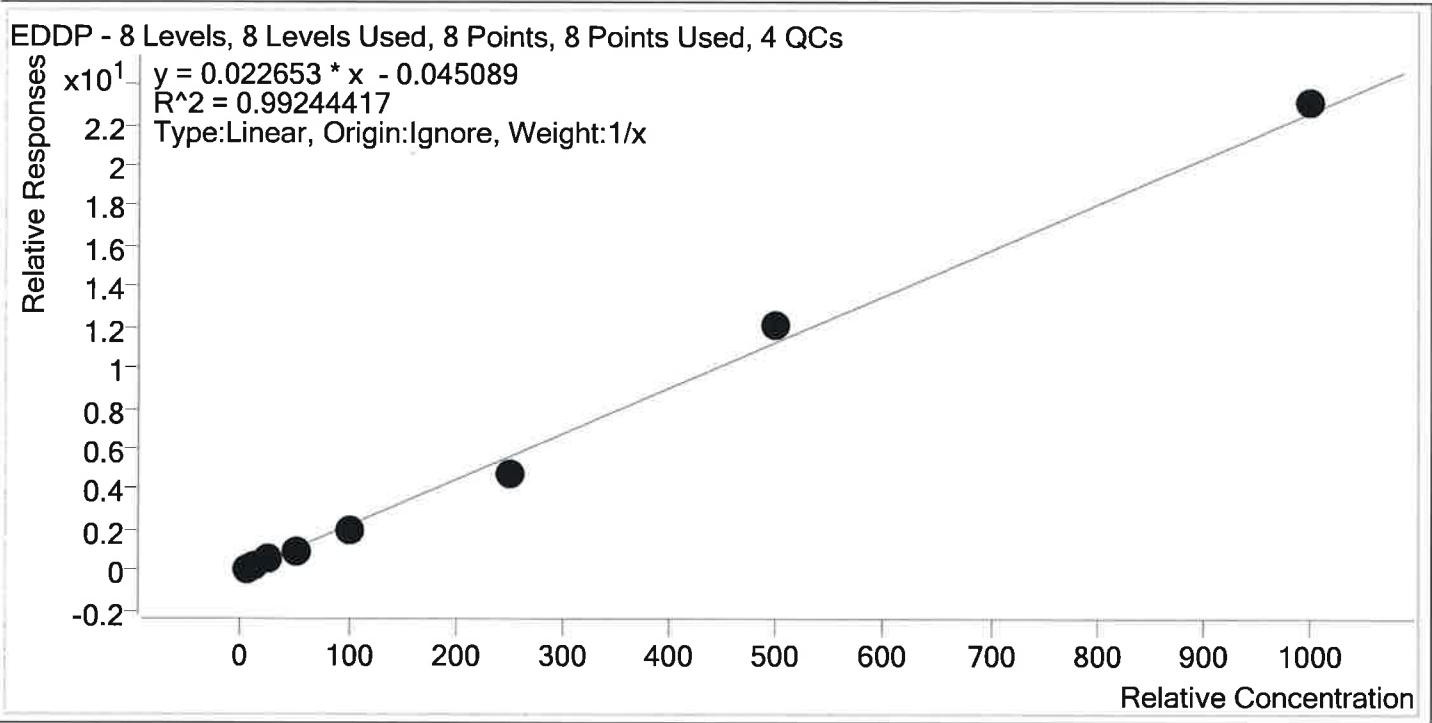


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.9	117.2
p1 Cal 2- 10ng	2	✓	10.0	10.4	103.7
p1 Cal 3 -25ng r	3	✓	25.0	27.7	110.8
p1 Cal 4-50ng	4	✓	50.0	43.7	87.5
p1 Cal 5-100ng	5	✓	100.0	88.4	88.4
p1 Cal 6-250ng	6	✓	250.0	212.4	84.9
p1 Cal 7-500ng	7	✓	500.0	522.7	104.5
p1 Cal 8-1000ng	8	✓	1000.0	1028.8	102.9



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st
 3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte EDDP **Internal Standard** EDDP-D3

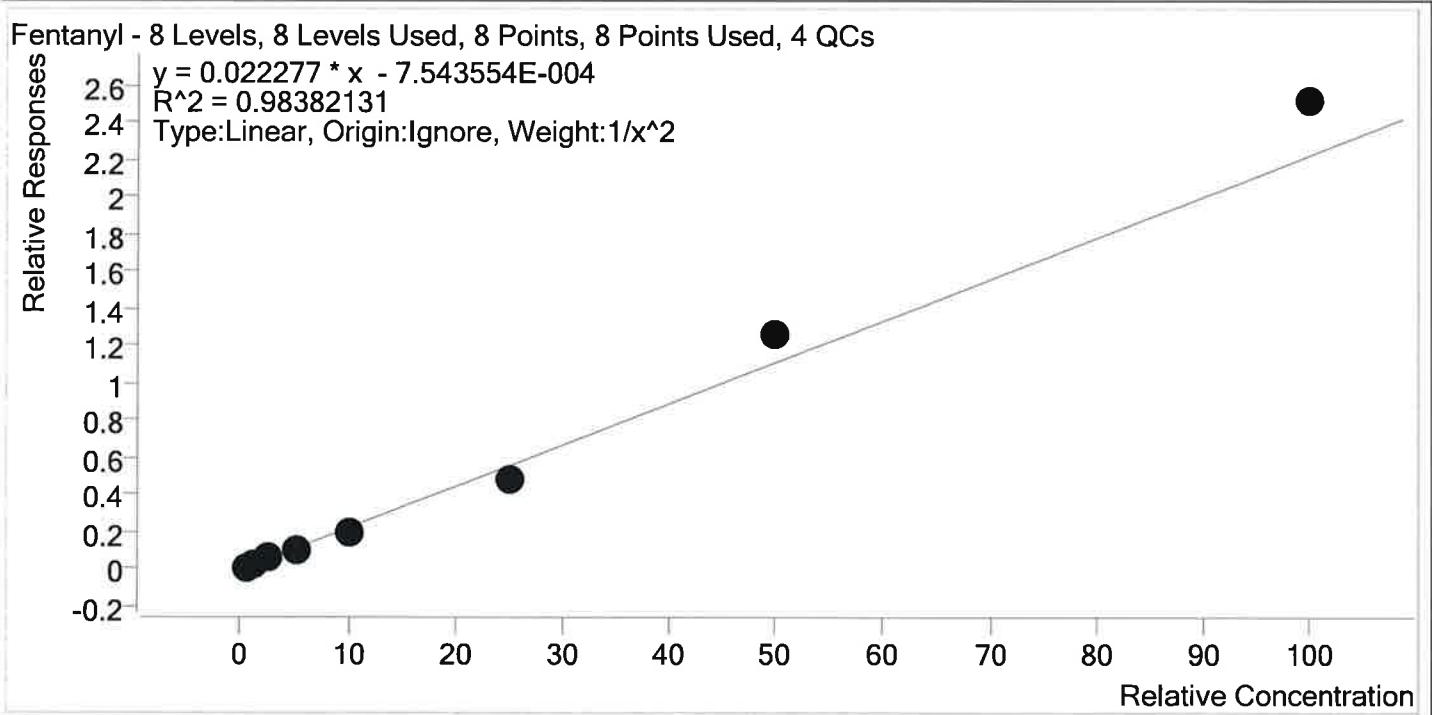


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	6.2	123.1
p1 Cal 2- 10ng	2	✓	10.0	10.7	106.7
p1 Cal 3 -25ng r	3	✓	25.0	26.9	107.6
p1 Cal 4-50ng	4	✓	50.0	41.5	83.0
p1 Cal 5-100ng	5	✓	100.0	86.3	86.3
p1 Cal 6-250ng	6	✓	250.0	209.6	83.8
p1 Cal 7-500ng	7	✓	500.0	536.6	107.3
p1 Cal 8-1000ng	8	✓	1000.0	1022.2	102.2



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wklist
 3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte Fentanyl **Internal Standard** Fentanyl-D5



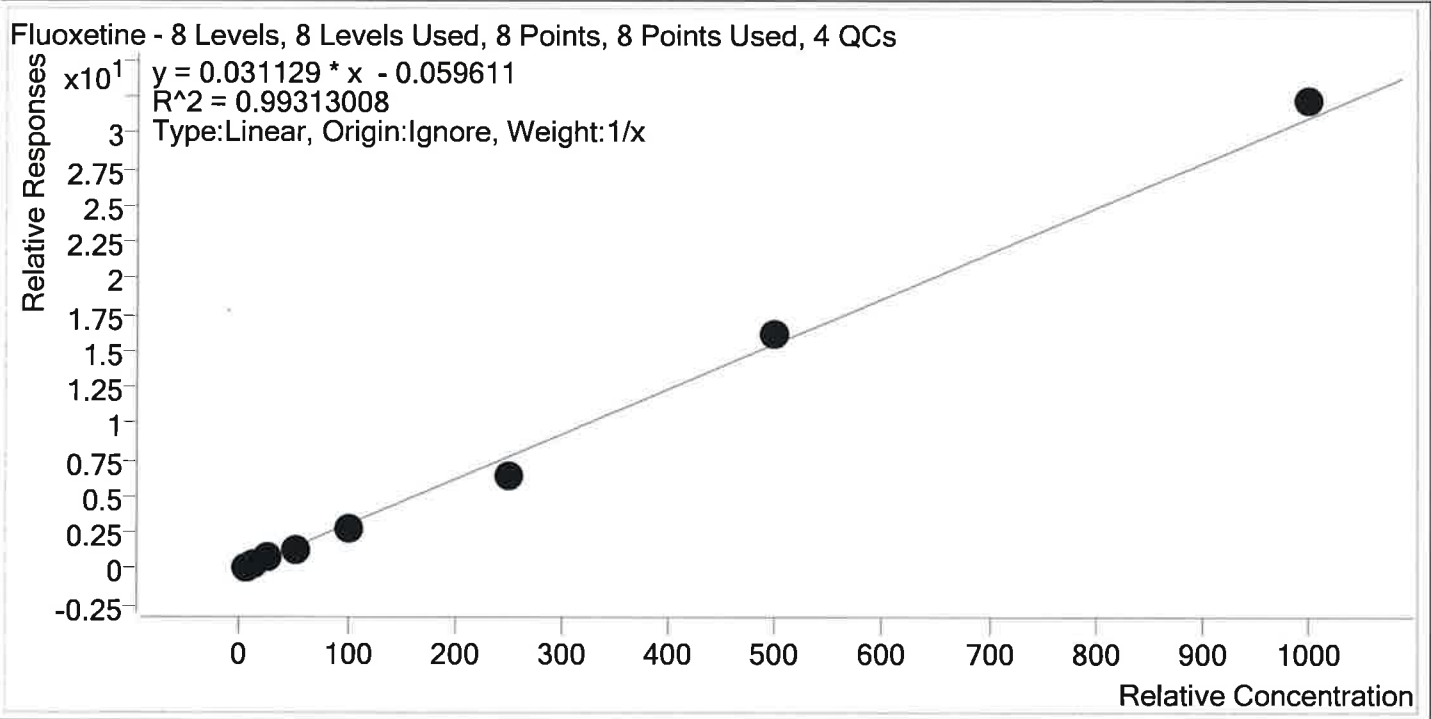
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	101.0
p1 Cal 2- 10ng	2	✓	1.0	1.0	97.6
p1 Cal 3 -25ng r	3	✓	2.5	2.7	109.7
p1 Cal 4-50ng	4	✓	5.0	4.4	88.7
p1 Cal 5-100ng	5	✓	10.0	8.9	89.3
p1 Cal 6-250ng	6	✓	25.0	21.7	87.0
p1 Cal 7-500ng	7	✓	50.0	56.8	113.5
p1 Cal 8-1000ng	8	✓	100.0	113.2	113.2

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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st
3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte Fluoxetine **Internal Standard** Fluoxetine-D6

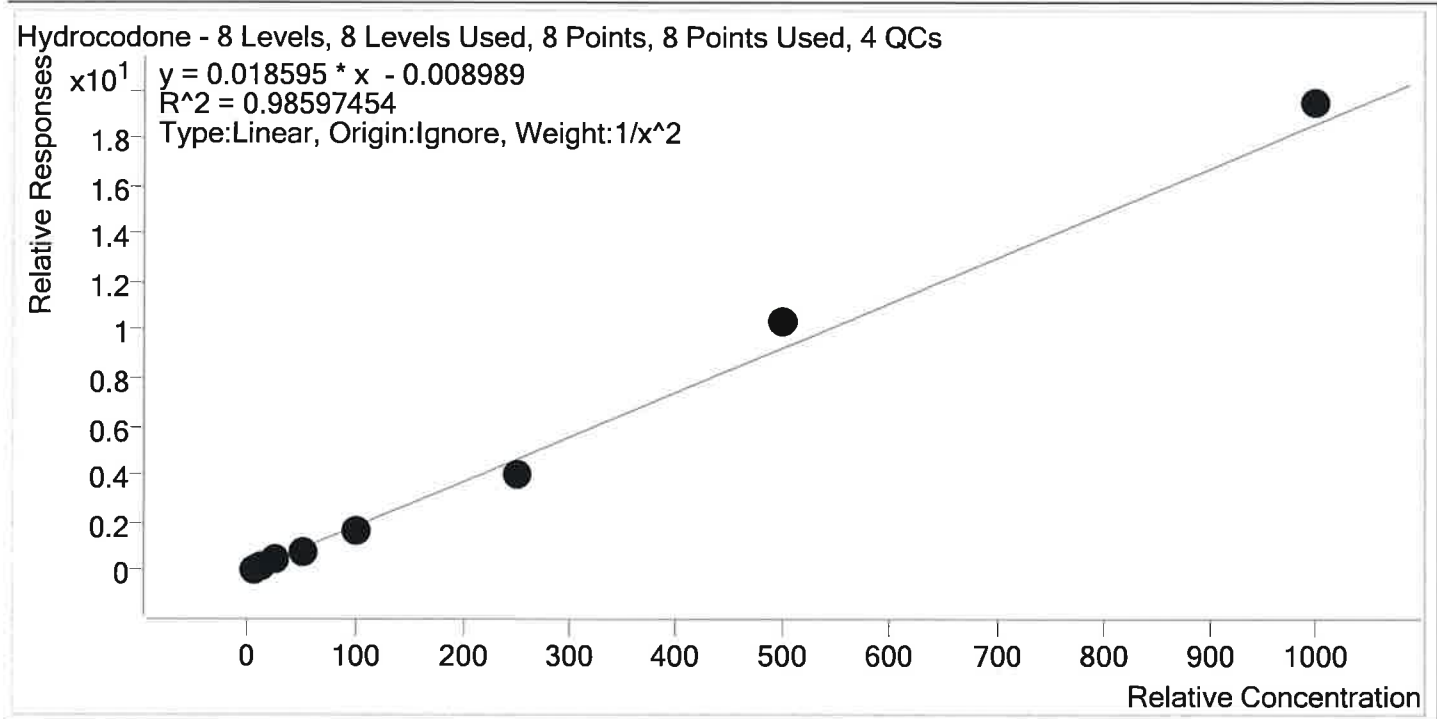


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.9	118.6
p1 Cal 2- 10ng	2	✓	10.0	10.4	104.0
p1 Cal 3 -25ng r	3	✓	25.0	27.9	111.6
p1 Cal 4-50ng	4	✓	50.0	43.6	87.3
p1 Cal 5-100ng	5	✓	100.0	88.1	88.1
p1 Cal 6-250ng	6	✓	250.0	207.1	82.9
p1 Cal 7-500ng	7	✓	500.0	518.9	103.8
p1 Cal 8-1000ng	8	✓	1000.0	1038.0	103.8



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st
 3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte Hydrocodone **Internal Standard** Hydrocodone-D6

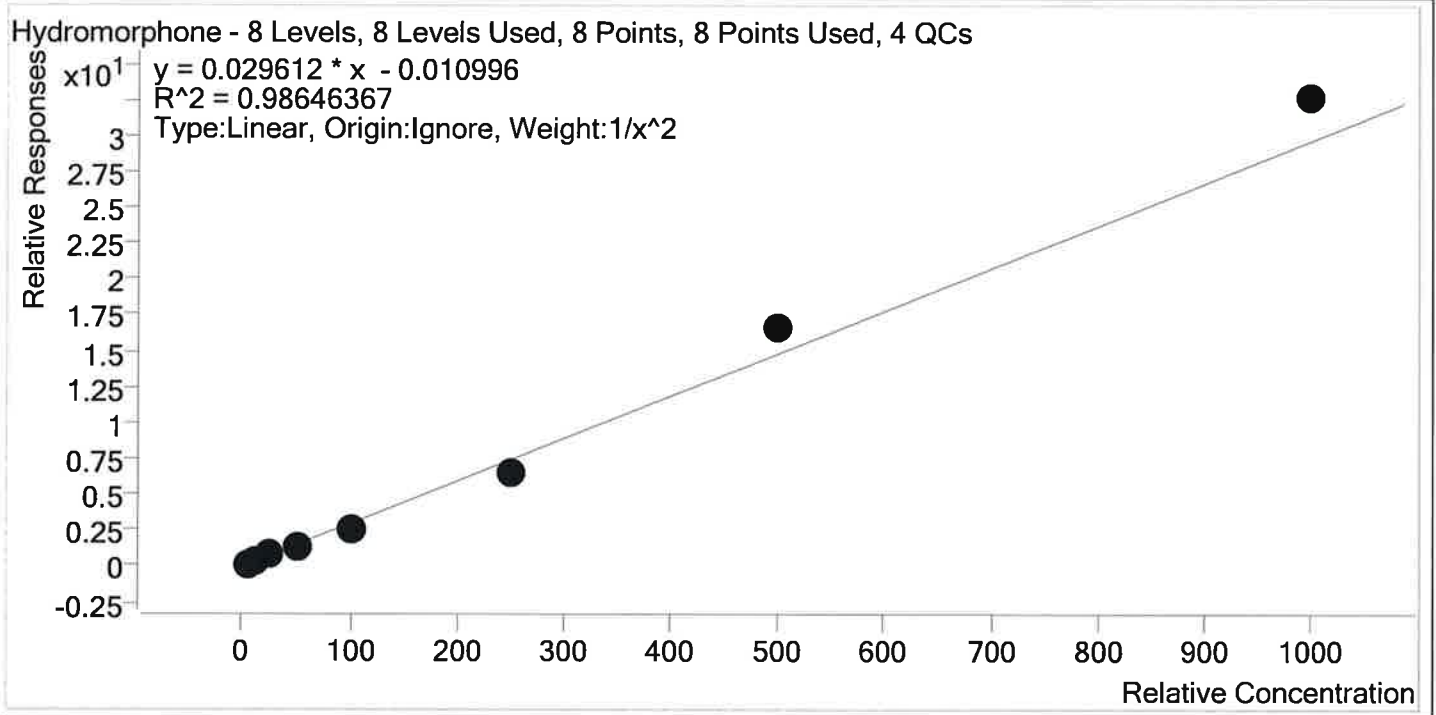


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.1
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.0
p1 Cal 3 -25ng r	3	✓	25.0	29.2	116.7
p1 Cal 4-50ng	4	✓	50.0	45.2	90.5
p1 Cal 5-100ng	5	✓	100.0	92.7	92.7
p1 Cal 6-250ng	6	✓	250.0	216.0	86.4
p1 Cal 7-500ng	7	✓	500.0	554.2	110.8
p1 Cal 8-1000ng	8	✓	1000.0	1047.5	104.7



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st
 3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte Hydromorphone **Internal Standard** Hydromorphone-D6

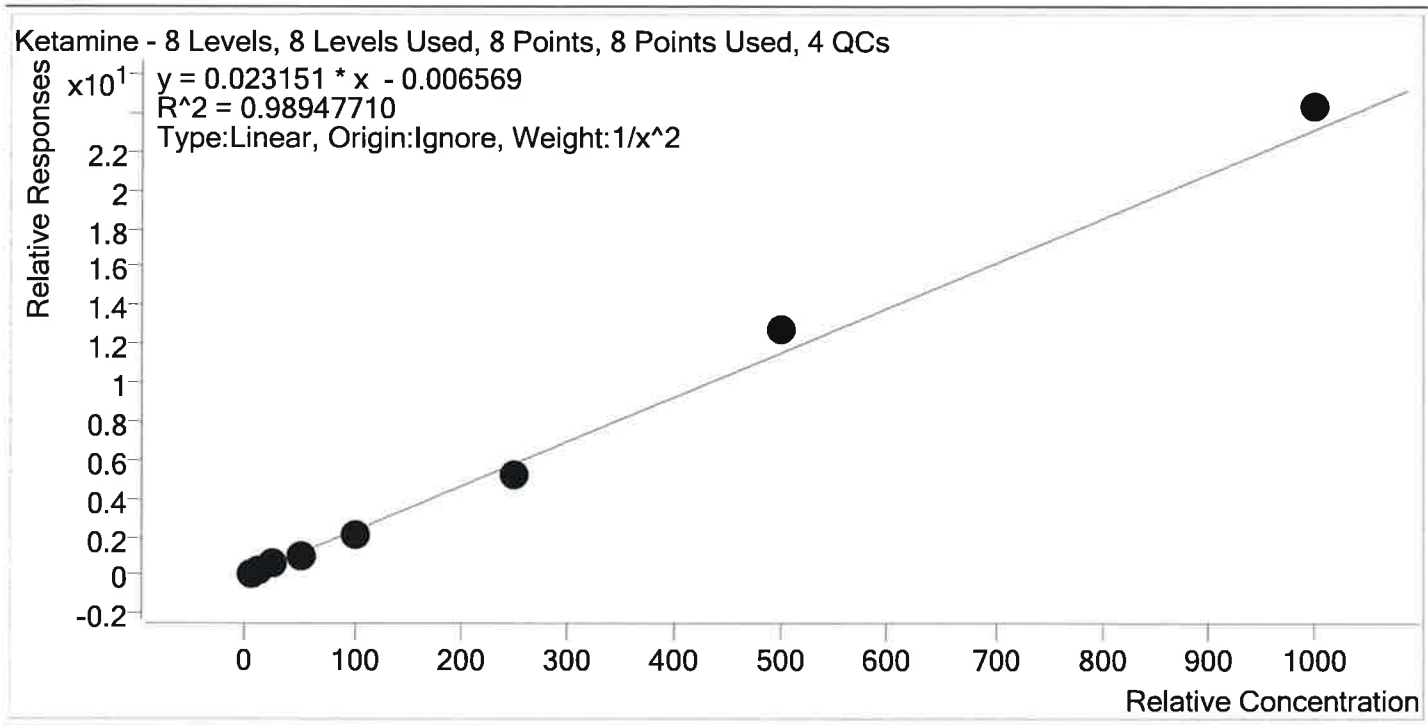


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.0
p1 Cal 2- 10ng	2	✓	10.0	9.6	96.3
p1 Cal 3 -25ng r	3	✓	25.0	28.0	111.9
p1 Cal 4-50ng	4	✓	50.0	44.8	89.5
p1 Cal 5-100ng	5	✓	100.0	90.8	90.8
p1 Cal 6-250ng	6	✓	250.0	221.4	88.6
p1 Cal 7-500ng	7	✓	500.0	558.5	111.7
p1 Cal 8-1000ng	8	✓	1000.0	1102.0	110.2



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st
 3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte Ketamine **Internal Standard** Ketamine-D4

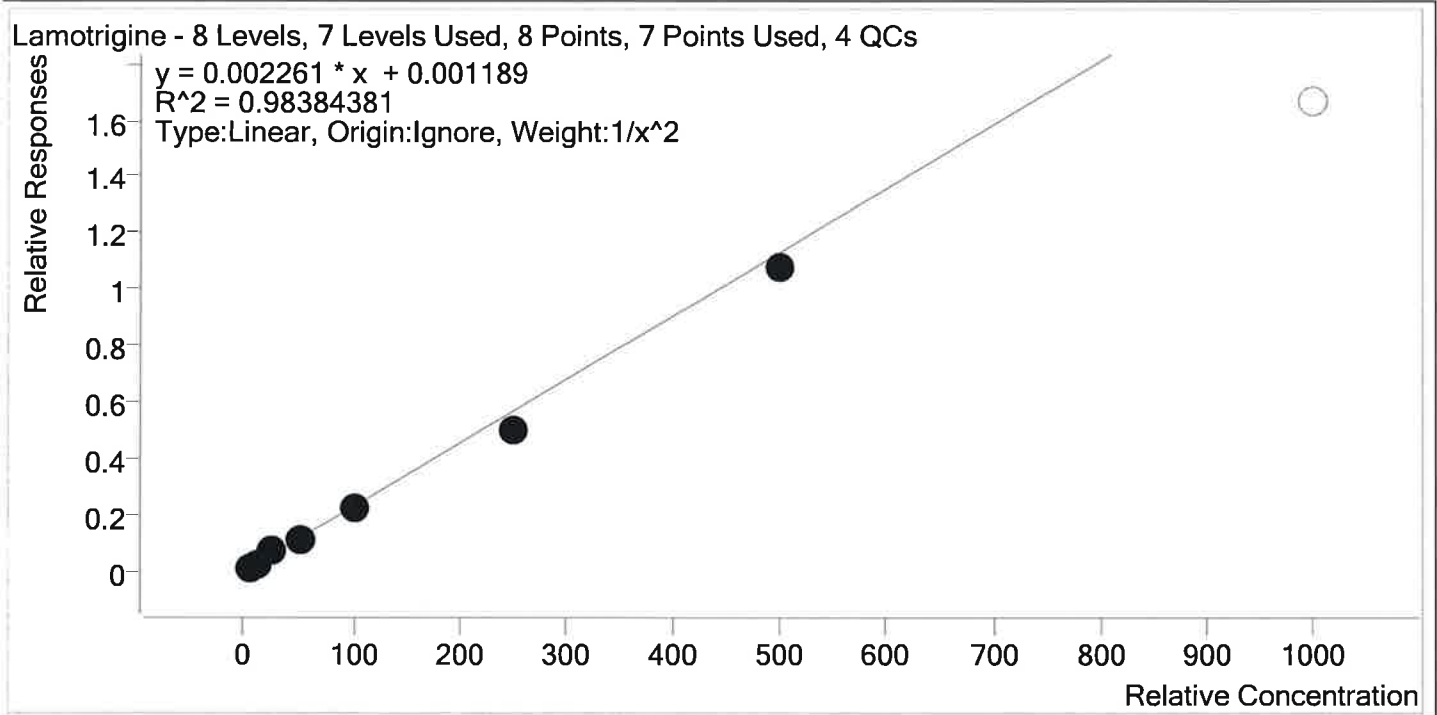


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.0
p1 Cal 2- 10ng	2	✓	10.0	9.7	97.0
p1 Cal 3 -25ng r	3	✓	25.0	28.5	114.1
p1 Cal 4-50ng	4	✓	50.0	45.6	91.2
p1 Cal 5-100ng	5	✓	100.0	93.6	93.6
p1 Cal 6-250ng	6	✓	250.0	223.4	89.4
p1 Cal 7-500ng	7	✓	500.0	548.3	109.7
p1 Cal 8-1000ng	8	✓	1000.0	1051.8	105.2



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st
 3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 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	4.6	92.0
p1 Cal 2- 10ng	2	✓	10.0	11.0	109.7
p1 Cal 3 -25ng r	3	✓	25.0	29.8	119.2
p1 Cal 4-50ng	4	✓	50.0	48.0	96.0
p1 Cal 5-100ng	5	✓	100.0	99.8	99.8
p1 Cal 6-250ng	6	✓	250.0	221.0	88.4
p1 Cal 7-500ng	7	✓	500.0	474.6	94.9
p1 Cal 8-1000ng	8	×	1000.0	736.9	73.7

TS



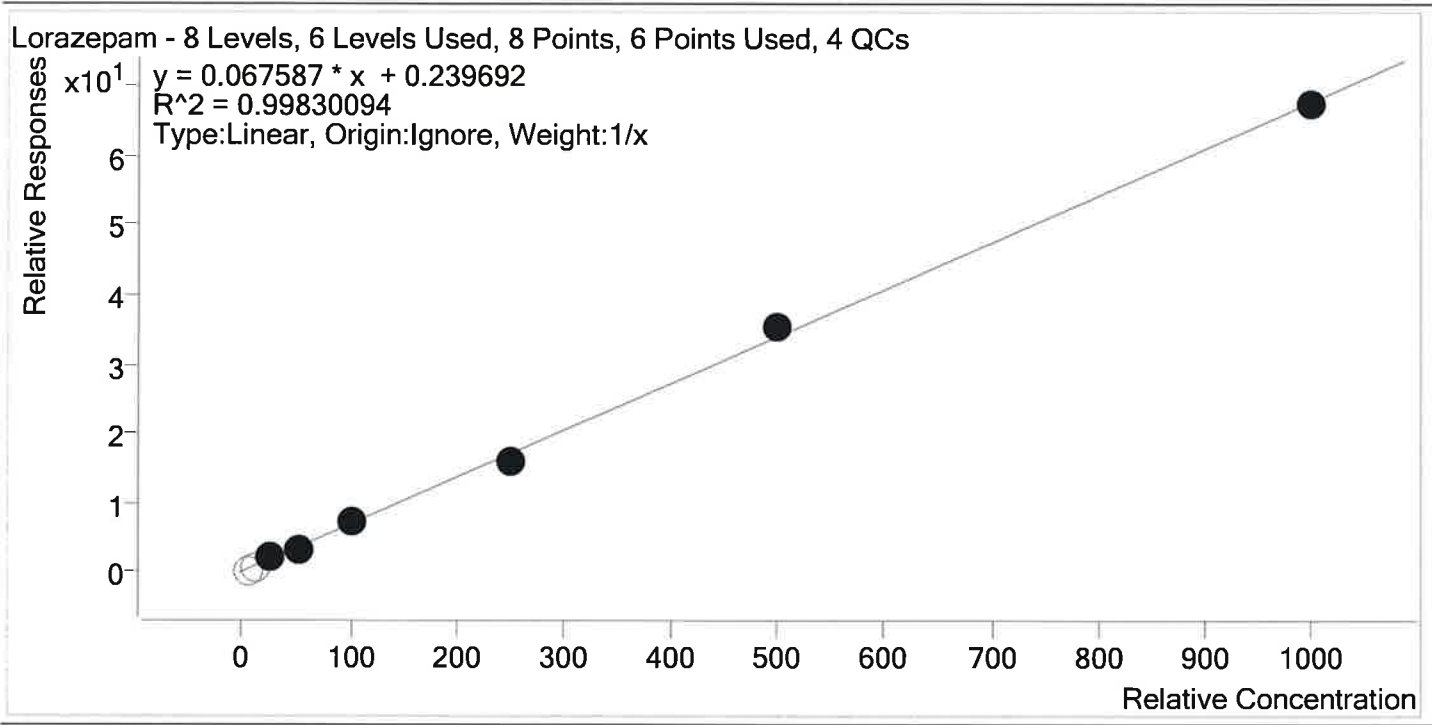
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st
3502 TS.batch.bin

Last Cal. Update 6/25/2019 11:30 AM

Analyst Name ISP\datastor

Analyte Lorazepam **Internal Standard** Clonazepam-D4

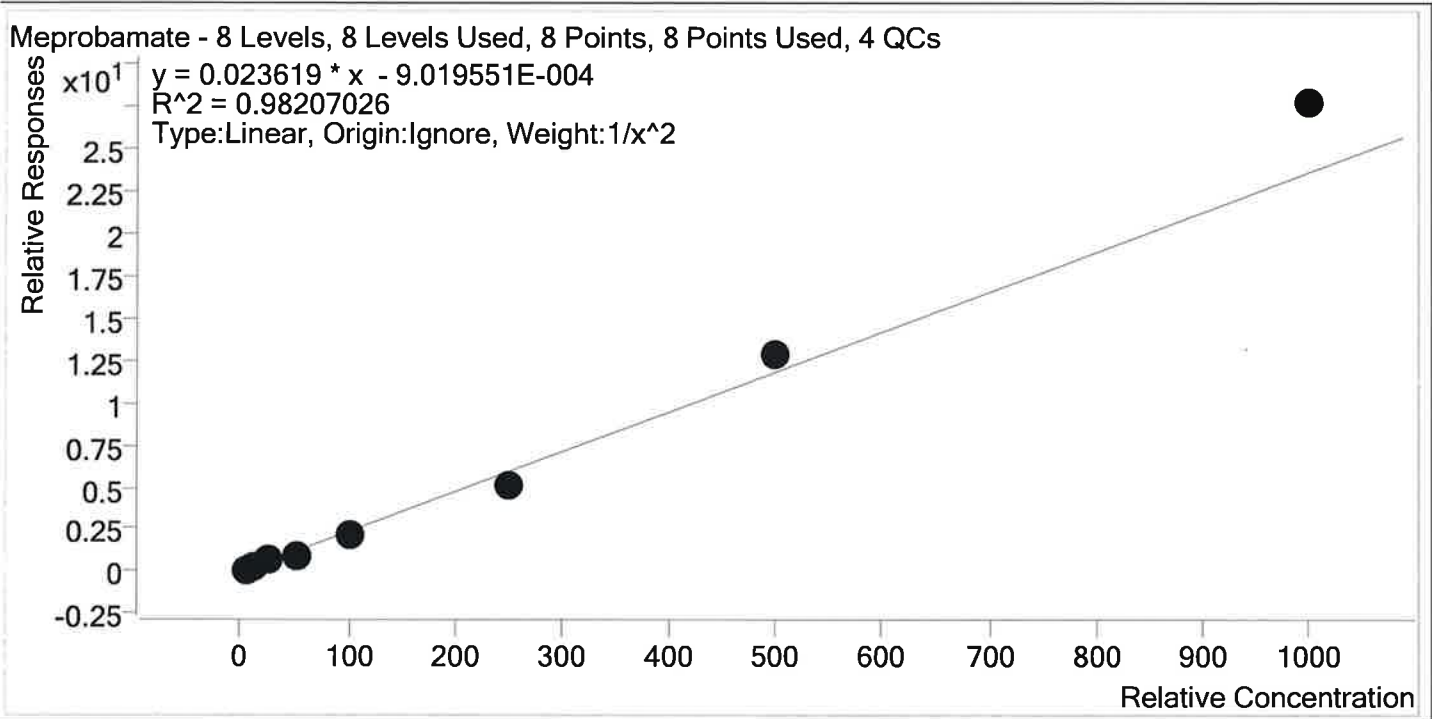


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	x	5.0	1.2	24.1
p1 Cal 2- 10ng	2	x	10.0	8.0	80.1
p1 Cal 3 -25ng r	3	✓	25.0	27.4	109.7
p1 Cal 4-50ng	4	✓	50.0	44.6	89.1
p1 Cal 5-100ng	5	✓	100.0	103.7	103.7
p1 Cal 6-250ng	6	✓	250.0	235.7	94.3
p1 Cal 7-500ng	7	✓	500.0	518.4	103.7
p1 Cal 8-1000ng	8	✓	1000.0	995.2	99.5



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st
 3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte Meprobamate **Internal Standard** Meprobamate-D7

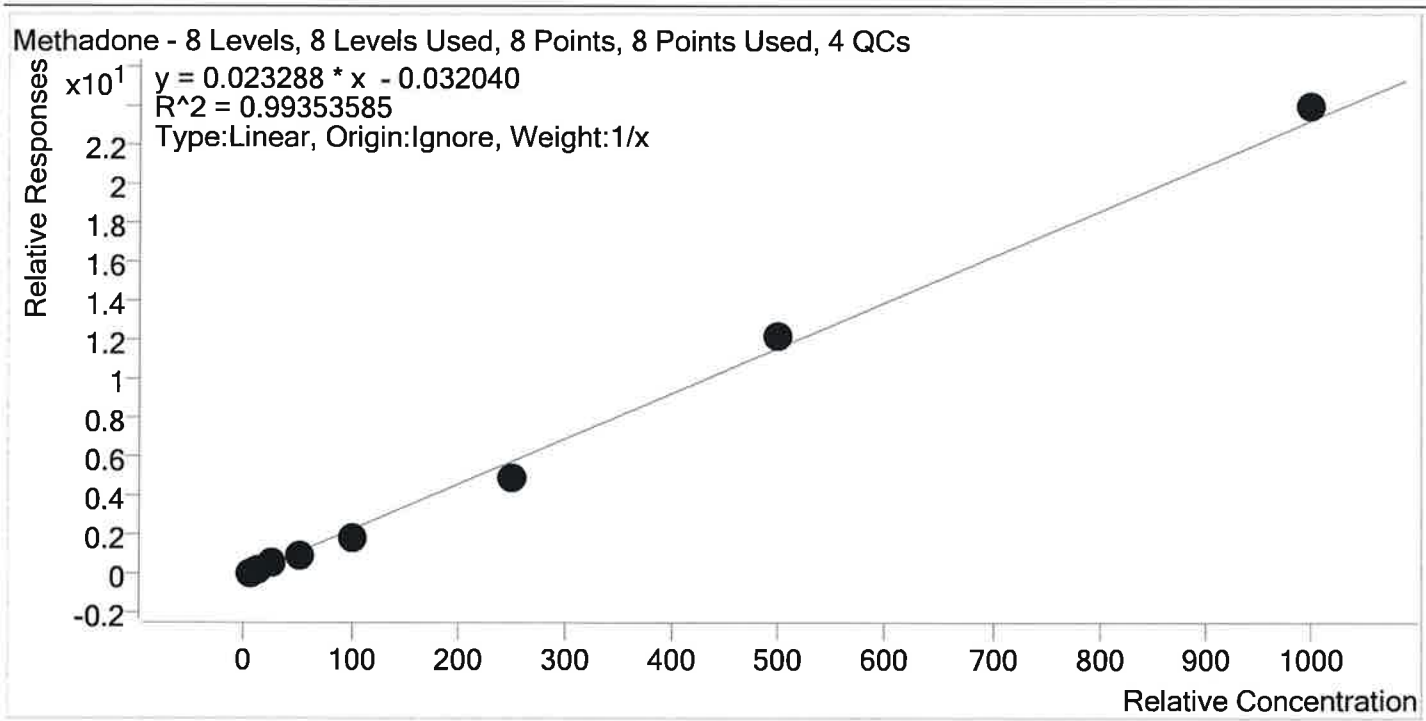


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.4
p1 Cal 2- 10ng	2	✓	10.0	10.6	106.0
p1 Cal 3 -25ng r	3	✓	25.0	27.0	108.0
p1 Cal 4-50ng	4	✓	50.0	43.3	86.6
p1 Cal 5-100ng	5	✓	100.0	88.6	88.6
p1 Cal 6-250ng	6	✓	250.0	217.7	87.1
p1 Cal 7-500ng	7	✓	500.0	544.6	108.9
p1 Cal 8-1000ng	8	✓	1000.0	1173.3	117.3



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st
 3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte Methadone **Internal Standard** Methadone-D9



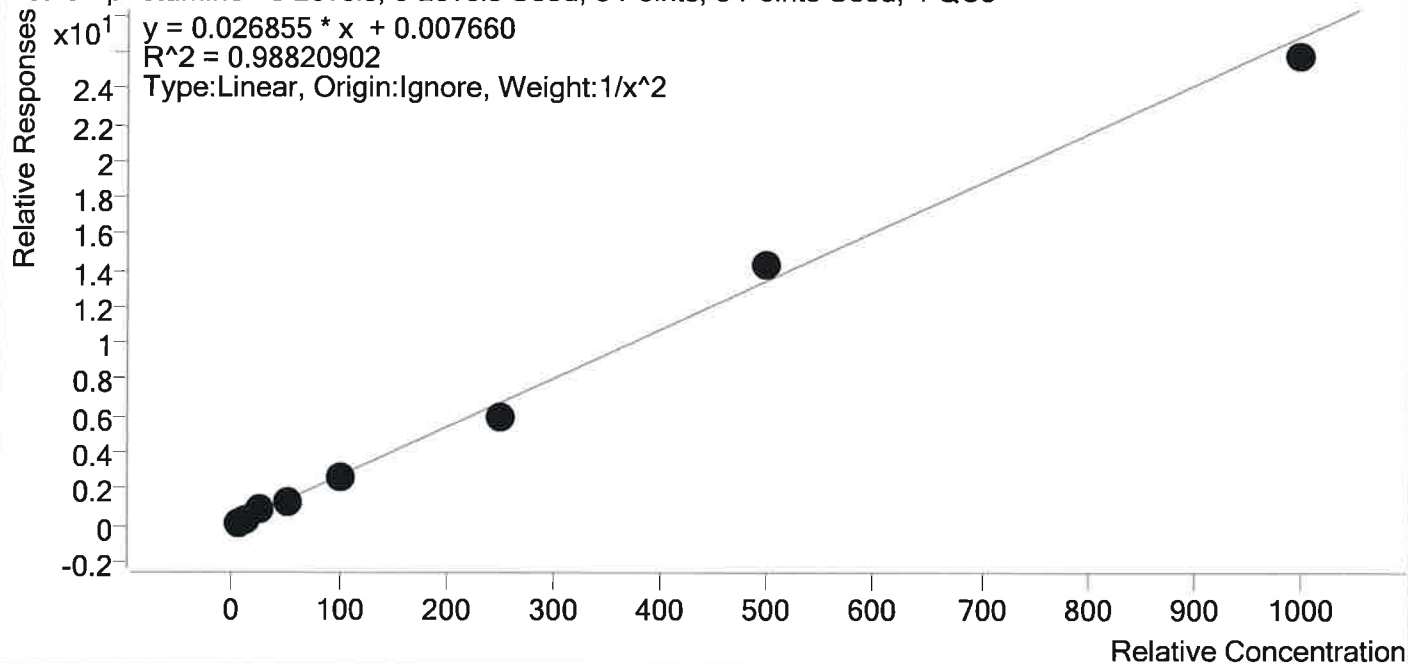
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.9	118.0
p1 Cal 2- 10ng	2	✓	10.0	10.4	103.8
p1 Cal 3 -25ng r	3	✓	25.0	28.1	112.4
p1 Cal 4-50ng	4	✓	50.0	43.9	87.8
p1 Cal 5-100ng	5	✓	100.0	85.6	85.6
p1 Cal 6-250ng	6	✓	250.0	211.1	84.4
p1 Cal 7-500ng	7	✓	500.0	524.1	104.8
p1 Cal 8-1000ng	8	✓	1000.0	1030.9	103.1



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st
 3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte Methamphetamine **Internal Standard** Methamphetamine-D11

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

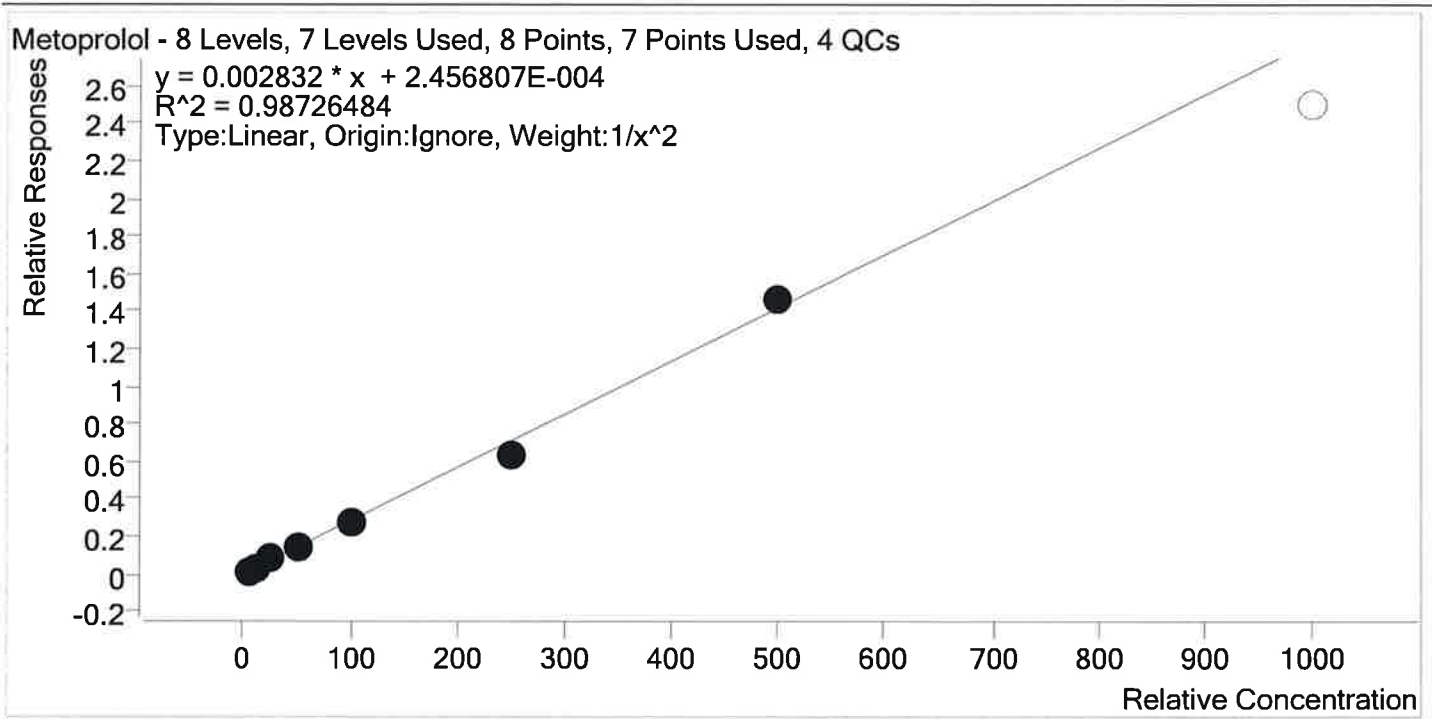


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	93.4
p1 Cal 2- 10ng	2	✓	10.0	10.8	108.1
p1 Cal 3 -25ng r	3	✓	25.0	29.3	117.4
p1 Cal 4-50ng	4	✓	50.0	47.7	95.4
p1 Cal 5-100ng	5	✓	100.0	94.6	94.6
p1 Cal 6-250ng	6	✓	250.0	223.0	89.2
p1 Cal 7-500ng	7	✓	500.0	529.6	105.9
p1 Cal 8-1000ng	8	✓	1000.0	959.9	96.0



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st
 3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte Metoprolol **Internal Standard** Tramadol-13C-D3



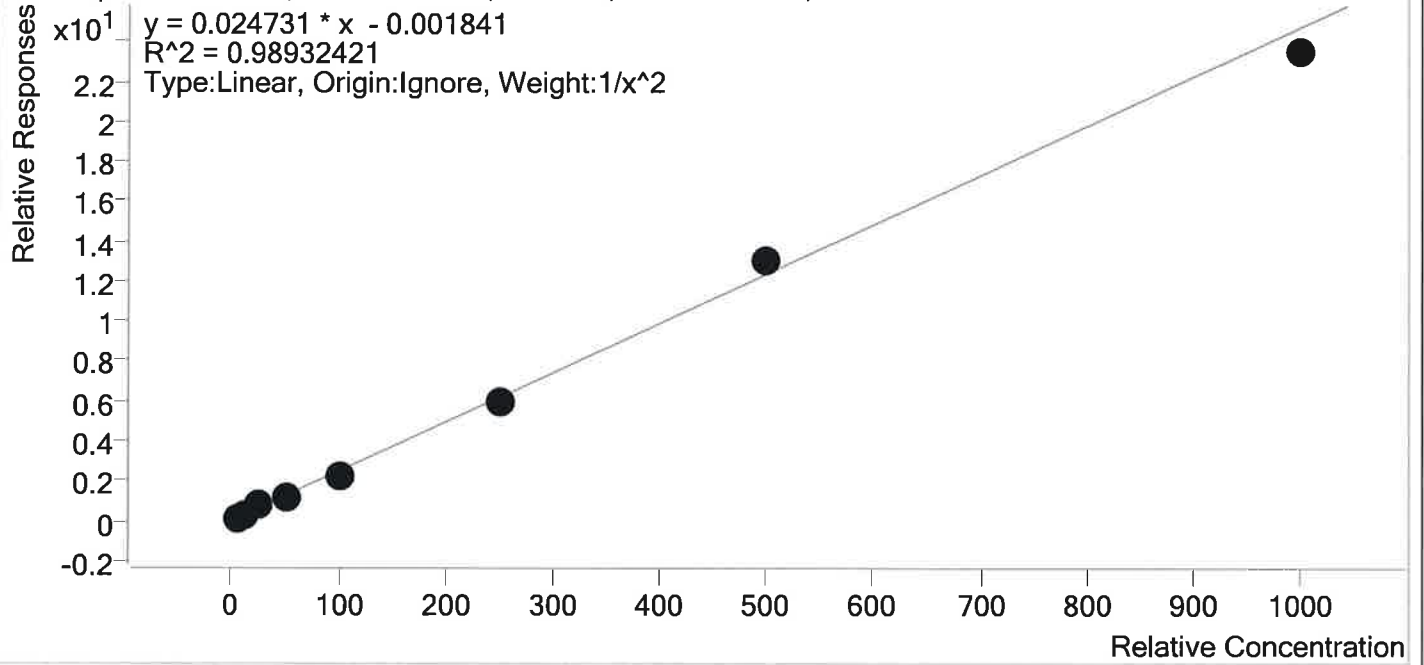
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.9
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.1
p1 Cal 3 -25ng r	3	✓	25.0	29.9	119.7
p1 Cal 4-50ng	4	✓	50.0	48.1	96.2
p1 Cal 5-100ng	5	✓	100.0	94.1	94.1
p1 Cal 6-250ng	6	✓	250.0	225.5	90.2
p1 Cal 7-500ng	7	✓	500.0	514.4	102.9
p1 Cal 8-1000ng	8	×	1000.0	881.5	88.2



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st 3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte Mirtazapine **Internal Standard** alpha-PVP-d8

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

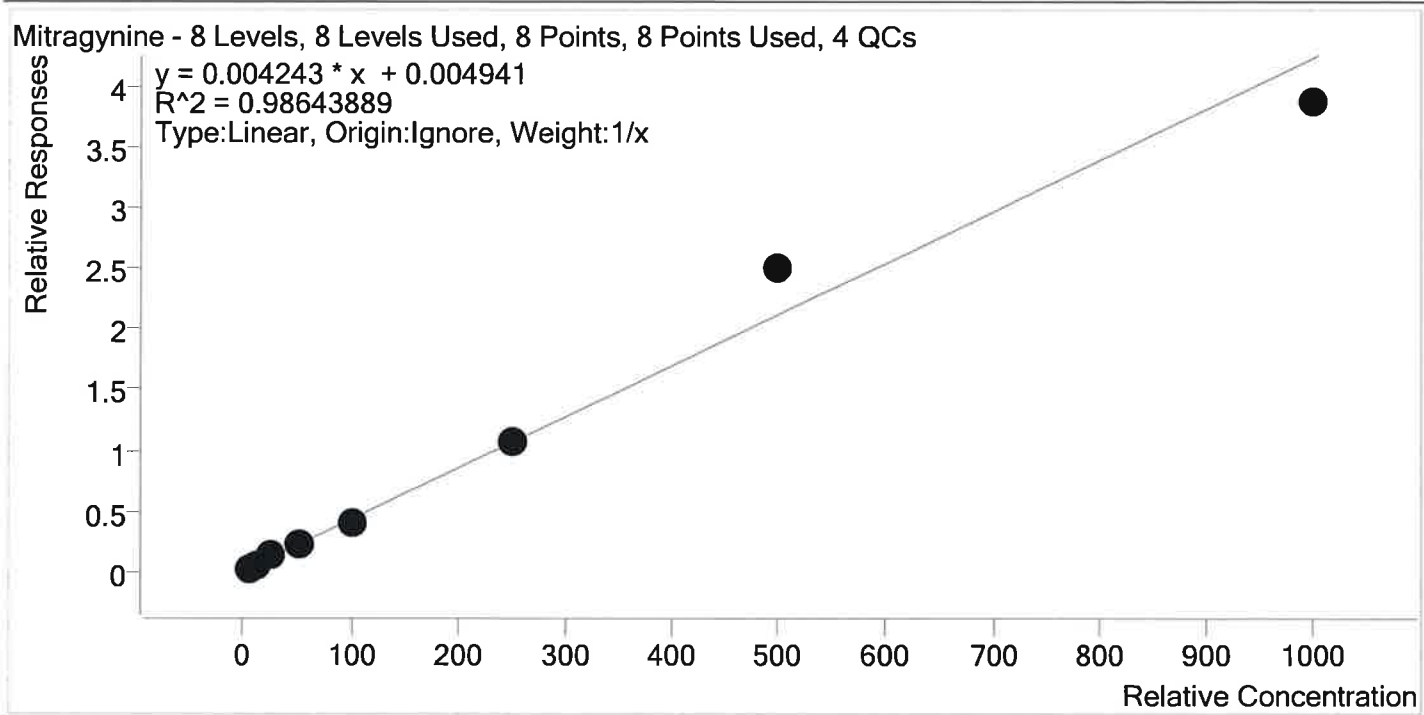


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.6
p1 Cal 2- 10ng	2	✓	10.0	9.9	98.7
p1 Cal 3 -25ng r	3	✓	25.0	30.0	119.8
p1 Cal 4-50ng	4	✓	50.0	47.7	95.4
p1 Cal 5-100ng	5	✓	100.0	91.8	91.8
p1 Cal 6-250ng	6	✓	250.0	239.1	95.7
p1 Cal 7-500ng	7	✓	500.0	530.2	106.0
p1 Cal 8-1000ng	8	✓	1000.0	950.3	95.0



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st
 3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte Mitragynine **Internal Standard** Methadone-D9

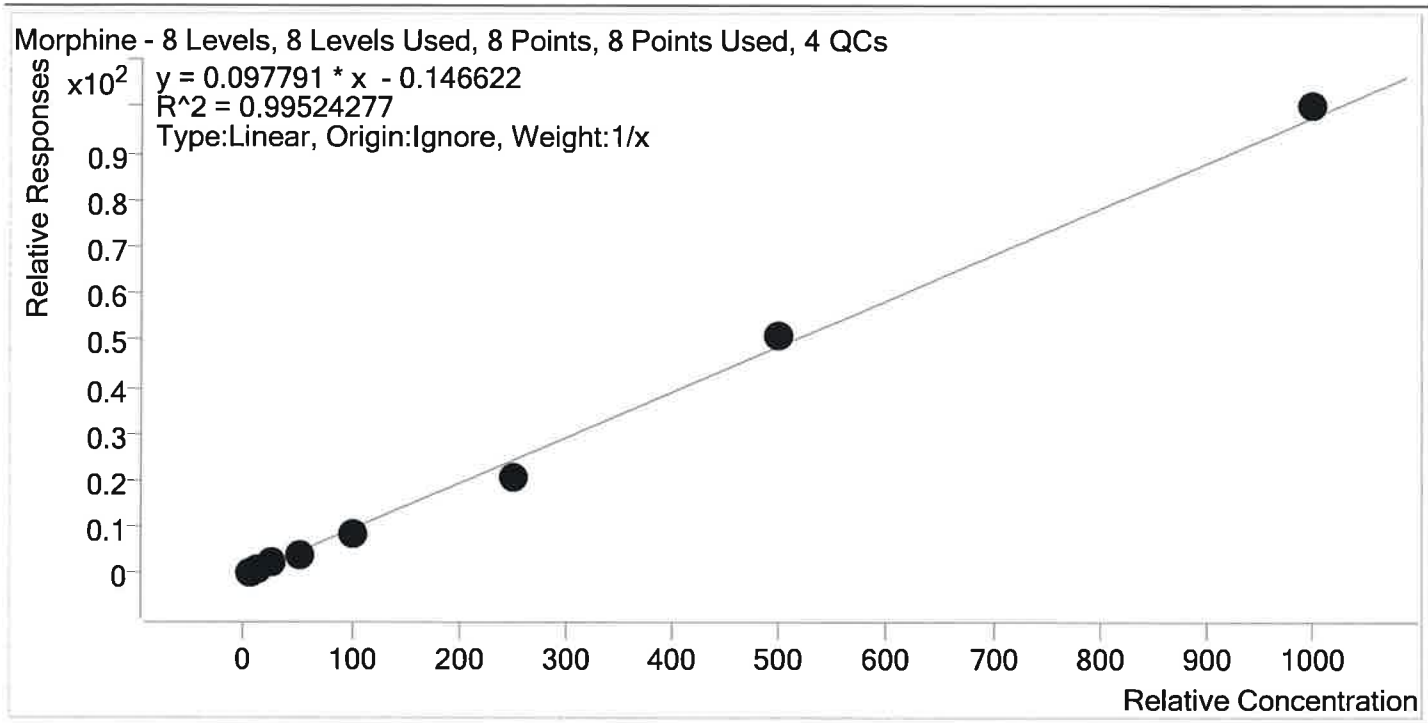


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.3	85.2
p1 Cal 2- 10ng	2	✓	10.0	9.8	97.9
p1 Cal 3 -25ng r	3	✓	25.0	28.8	115.2
p1 Cal 4-50ng	4	✓	50.0	48.4	96.8
p1 Cal 5-100ng	5	✓	100.0	96.1	96.1
p1 Cal 6-250ng	6	✓	250.0	248.7	99.5
p1 Cal 7-500ng	7	✓	500.0	589.7	117.9
p1 Cal 8-1000ng	8	✓	1000.0	914.3	91.4



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st
 3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte Morphine **Internal Standard** Morphine-D6

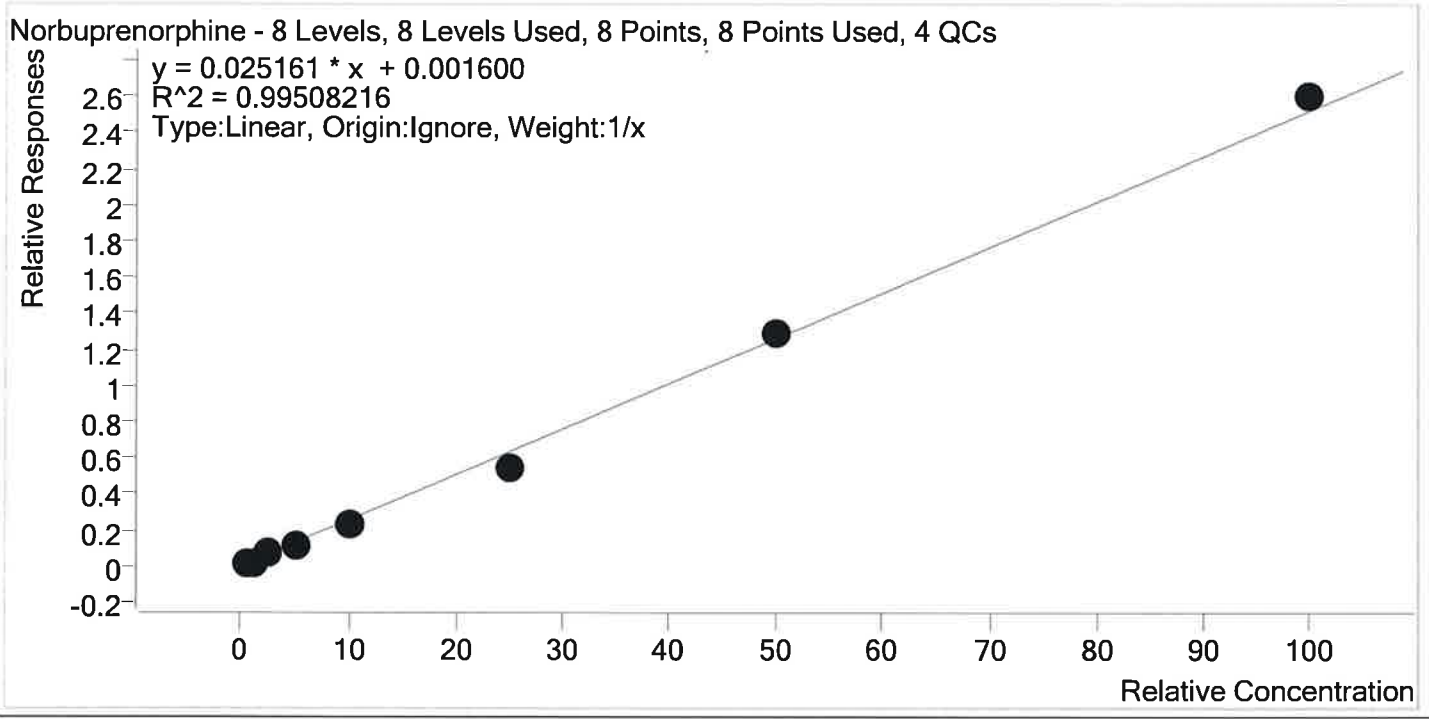


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.6	111.7
p1 Cal 2- 10ng	2	✓	10.0	10.5	104.7
p1 Cal 3 -25ng r	3	✓	25.0	27.8	111.3
p1 Cal 4-50ng	4	✓	50.0	45.8	91.6
p1 Cal 5-100ng	5	✓	100.0	87.4	87.4
p1 Cal 6-250ng	6	✓	250.0	216.1	86.5
p1 Cal 7-500ng	7	✓	500.0	520.7	104.1
p1 Cal 8-1000ng	8	✓	1000.0	1026.0	102.6



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wklist 3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte Norbuprenorphine **Internal Standard** Norbuprenorphine-D3

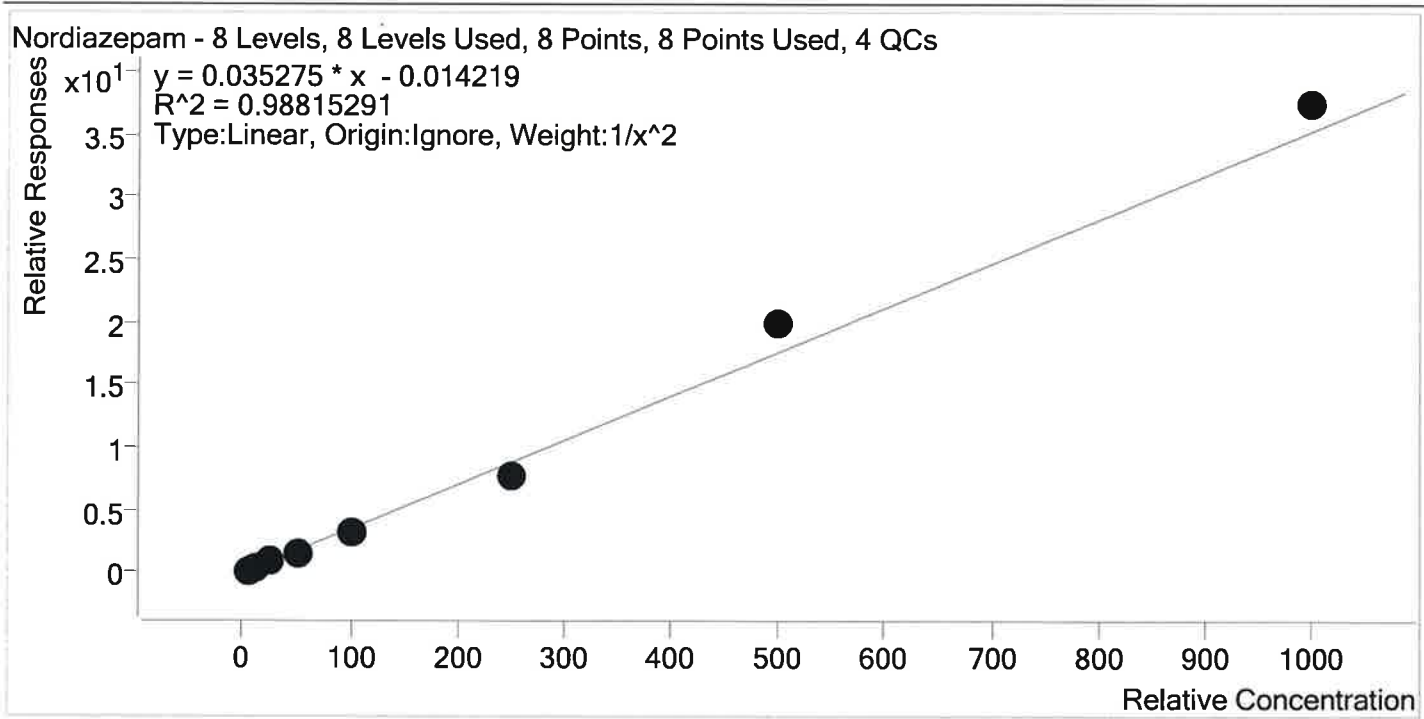


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.6	122.4
p1 Cal 2- 10ng	2	✓	1.0	0.9	85.5
p1 Cal 3 -25ng r	3	✓	2.5	3.0	119.7
p1 Cal 4-50ng	4	✓	5.0	4.4	87.2
p1 Cal 5-100ng	5	✓	10.0	9.4	93.9
p1 Cal 6-250ng	6	✓	25.0	21.5	86.1
p1 Cal 7-500ng	7	✓	50.0	51.0	102.1
p1 Cal 8-1000ng	8	✓	100.0	103.2	103.2



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st
 3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte Nordiazepam **Internal Standard** Nordiazepam-D5

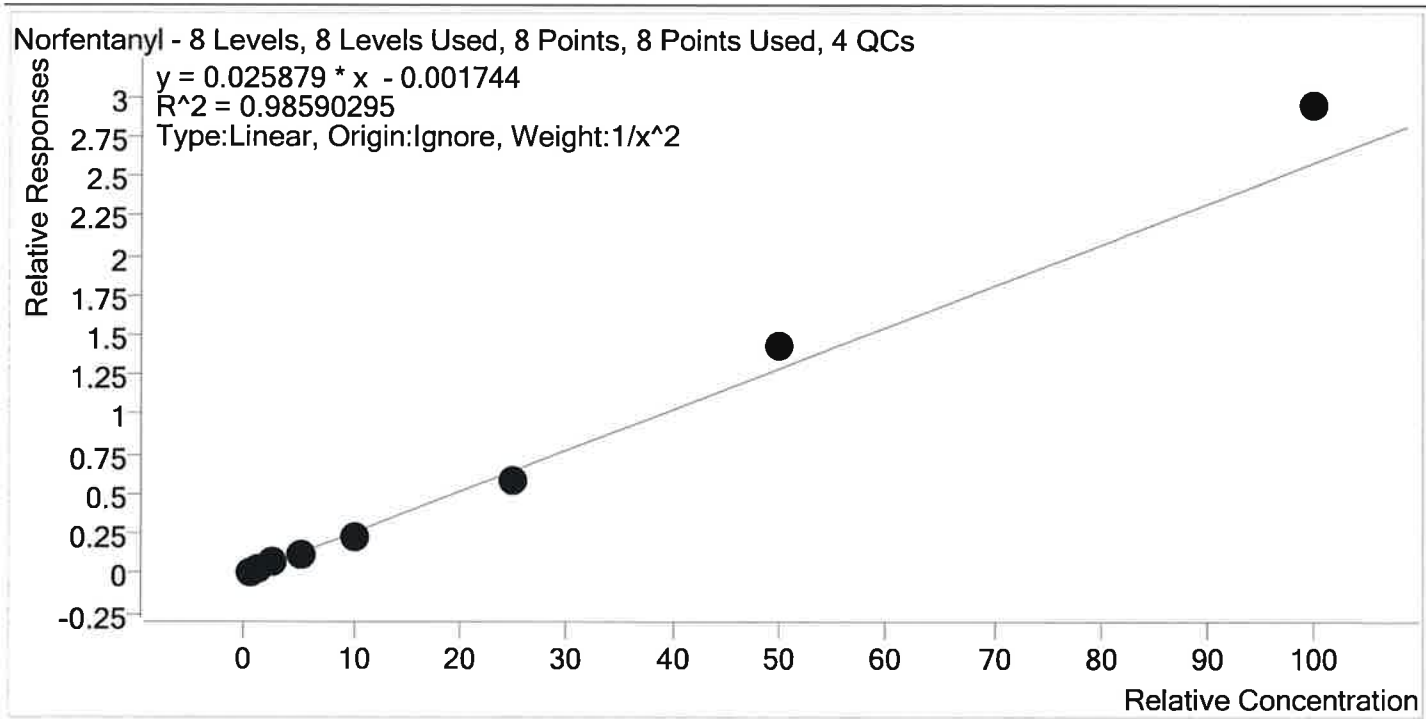


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.6
p1 Cal 2- 10ng	2	✓	10.0	10.3	103.3
p1 Cal 3 -25ng r	3	✓	25.0	27.6	110.5
p1 Cal 4-50ng	4	✓	50.0	46.4	92.8
p1 Cal 5-100ng	5	✓	100.0	88.0	88.0
p1 Cal 6-250ng	6	✓	250.0	222.9	89.2
p1 Cal 7-500ng	7	✓	500.0	562.2	112.4
p1 Cal 8-1000ng	8	✓	1000.0	1060.8	106.1



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st
 3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte Norfentanyl **Internal Standard** Norfentanyl-D5

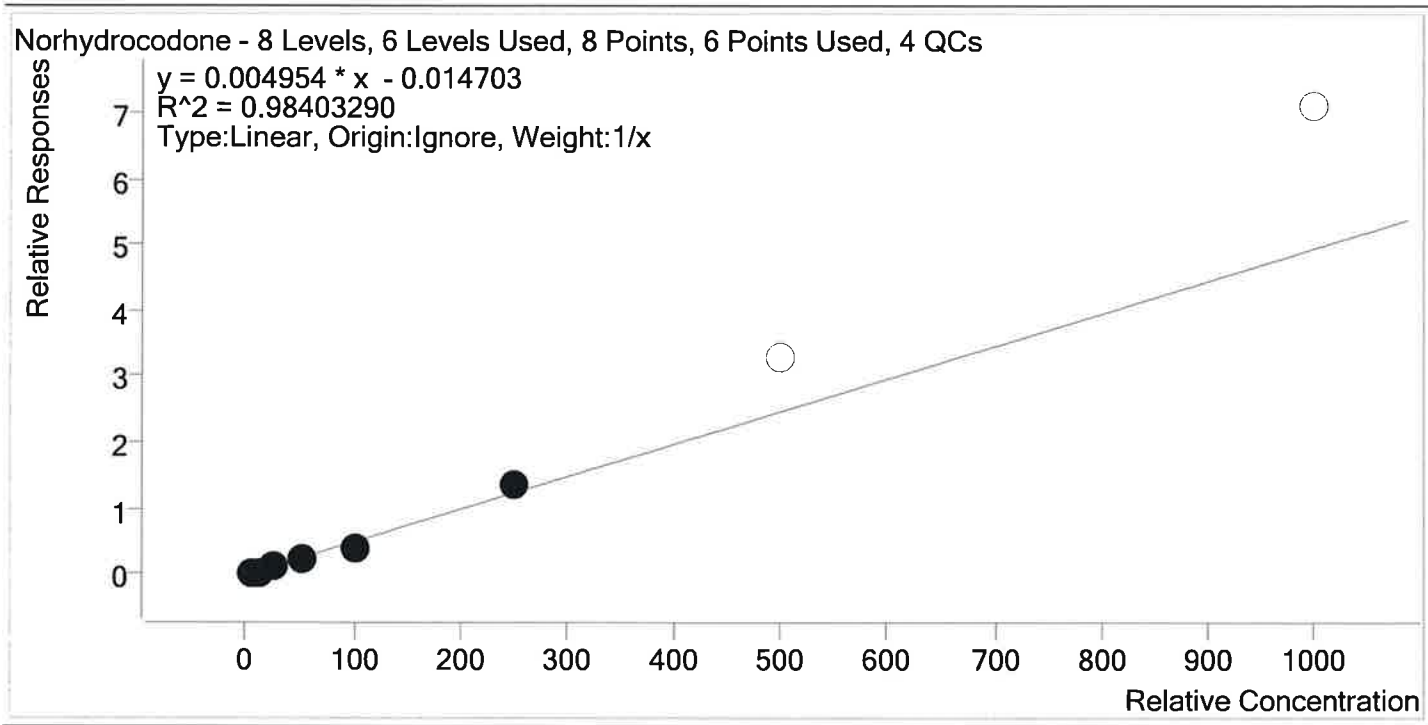


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	100.9
p1 Cal 2- 10ng	2	✓	1.0	1.0	98.1
p1 Cal 3 -25ng r	3	✓	2.5	2.7	108.9
p1 Cal 4-50ng	4	✓	5.0	4.4	88.3
p1 Cal 5-100ng	5	✓	10.0	8.9	89.1
p1 Cal 6-250ng	6	✓	25.0	22.5	89.9
p1 Cal 7-500ng	7	✓	50.0	55.5	110.9
p1 Cal 8-1000ng	8	✓	100.0	113.9	113.9



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st
 3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte Norhydrocodone **Internal Standard** Norhydrocodone-D3

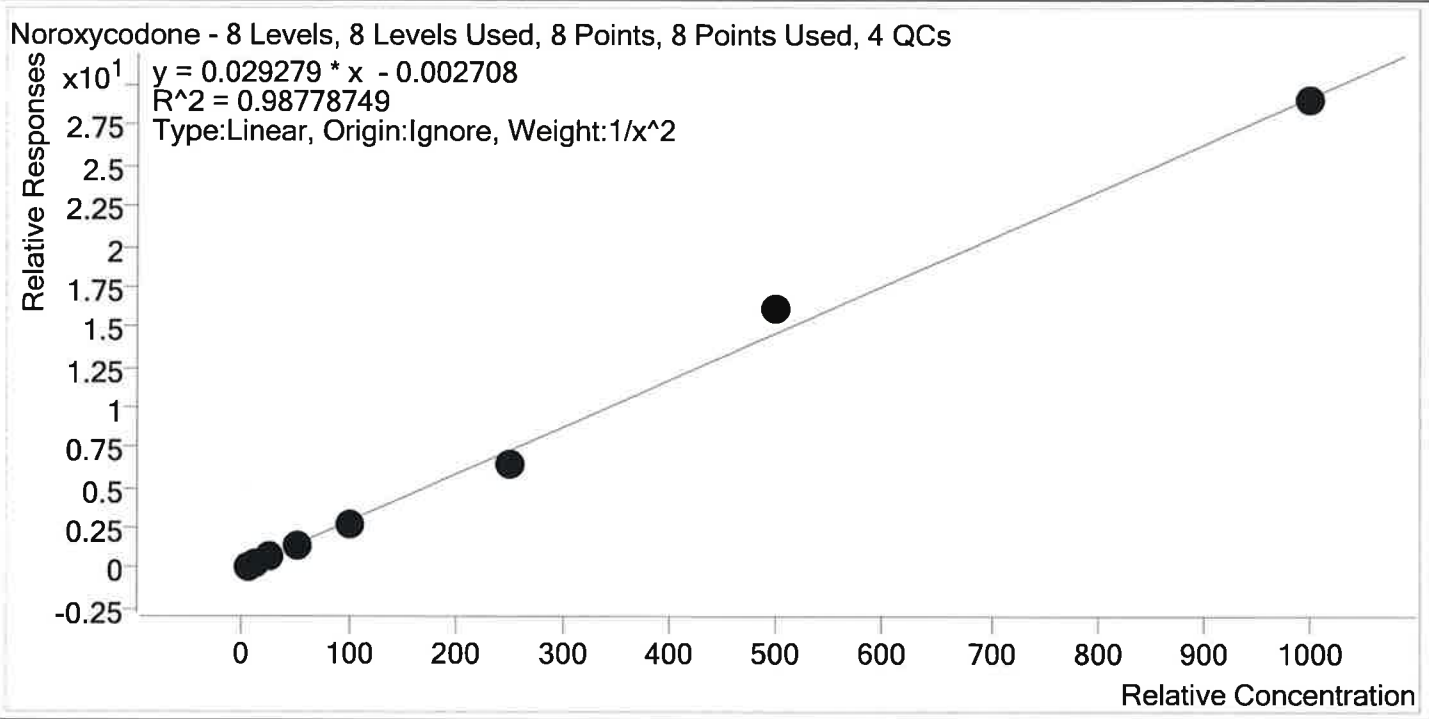


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	6.2	123.2
p1 Cal 2- 10ng	2	✓	10.0	9.4	93.9
p1 Cal 3 -25ng r	3	✓	25.0	26.1	104.5
p1 Cal 4-50ng	4	✓	50.0	42.6	85.2
p1 Cal 5-100ng	5	✓	100.0	84.7	84.7
p1 Cal 6-250ng	6	✓	250.0	271.0	108.4
p1 Cal 7-500ng	7	×	500.0	671.7	134.3
p1 Cal 8-1000ng	8	×	1000.0	1438.1	143.8



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st
 3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte Noroxycodone **Internal Standard** Noroxycodone-D3

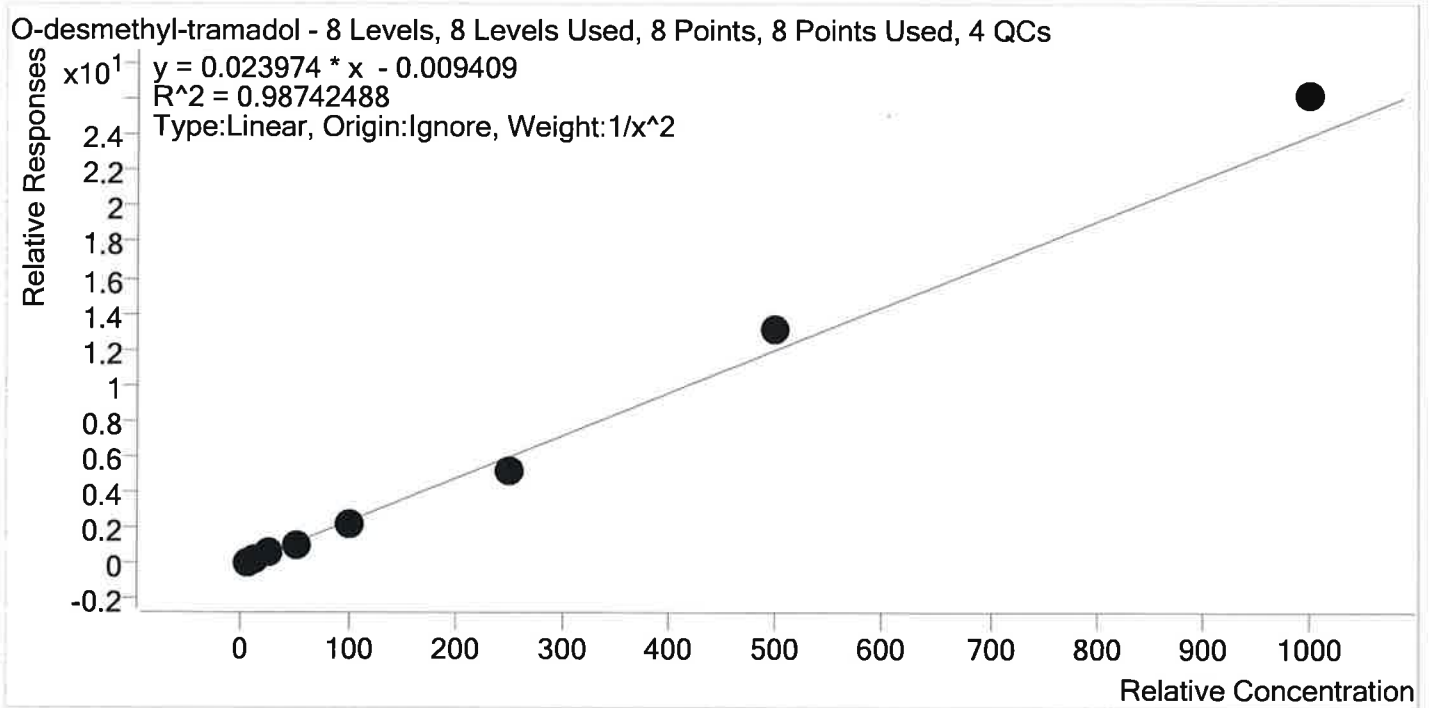


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.8
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.2
p1 Cal 3 -25ng r	3	✓	25.0	29.1	116.3
p1 Cal 4-50ng	4	✓	50.0	46.4	92.8
p1 Cal 5-100ng	5	✓	100.0	93.8	93.8
p1 Cal 6-250ng	6	✓	250.0	218.8	87.5
p1 Cal 7-500ng	7	✓	500.0	555.6	111.1
p1 Cal 8-1000ng	8	✓	1000.0	994.2	99.4



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st
 3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte O-desmethyl-tramadol **Internal Standard** O-desmethyl-tramadol-D6

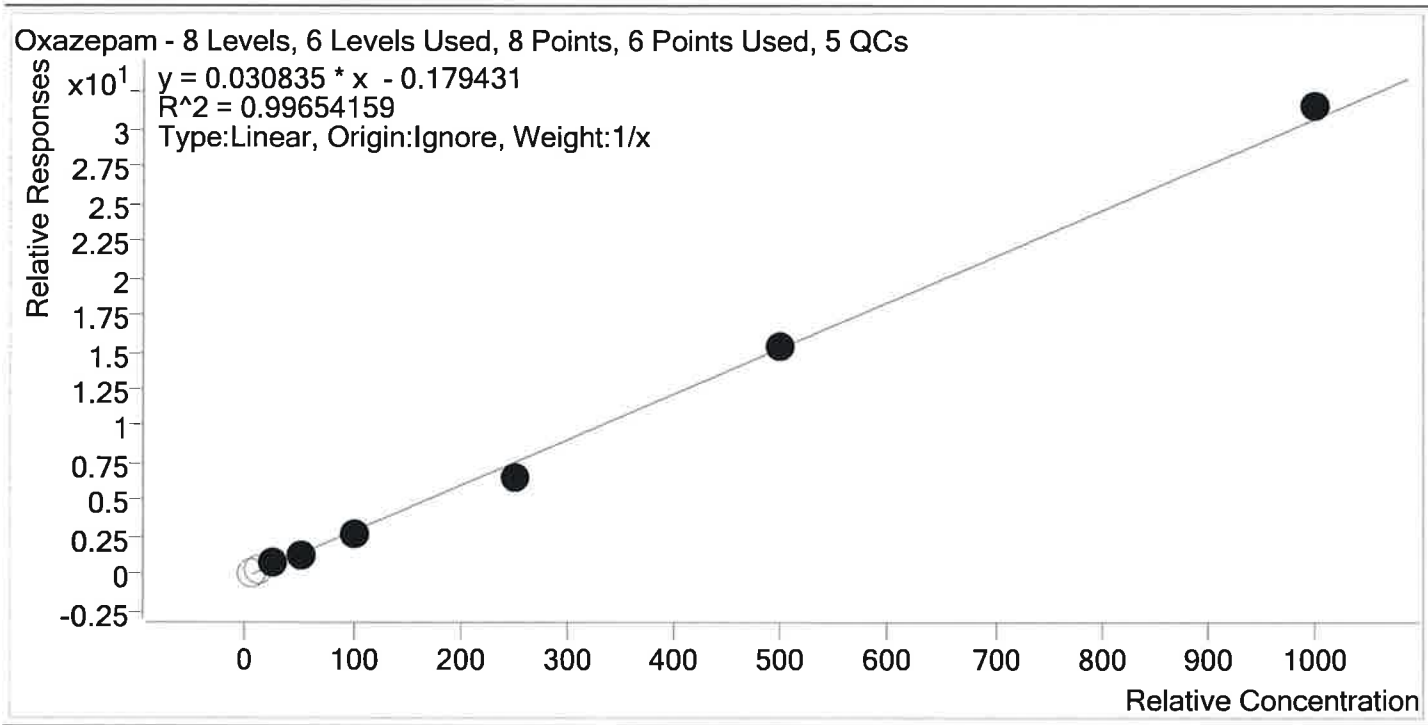


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.4
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.5
p1 Cal 3 -25ng r	3	✓	25.0	28.1	112.3
p1 Cal 4-50ng	4	✓	50.0	44.8	89.5
p1 Cal 5-100ng	5	✓	100.0	90.7	90.7
p1 Cal 6-250ng	6	✓	250.0	221.8	88.7
p1 Cal 7-500ng	7	✓	500.0	552.8	110.6
p1 Cal 8-1000ng	8	✓	1000.0	1092.5	109.3



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st
 3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte Oxazepam **Internal Standard** Oxazepam-D5



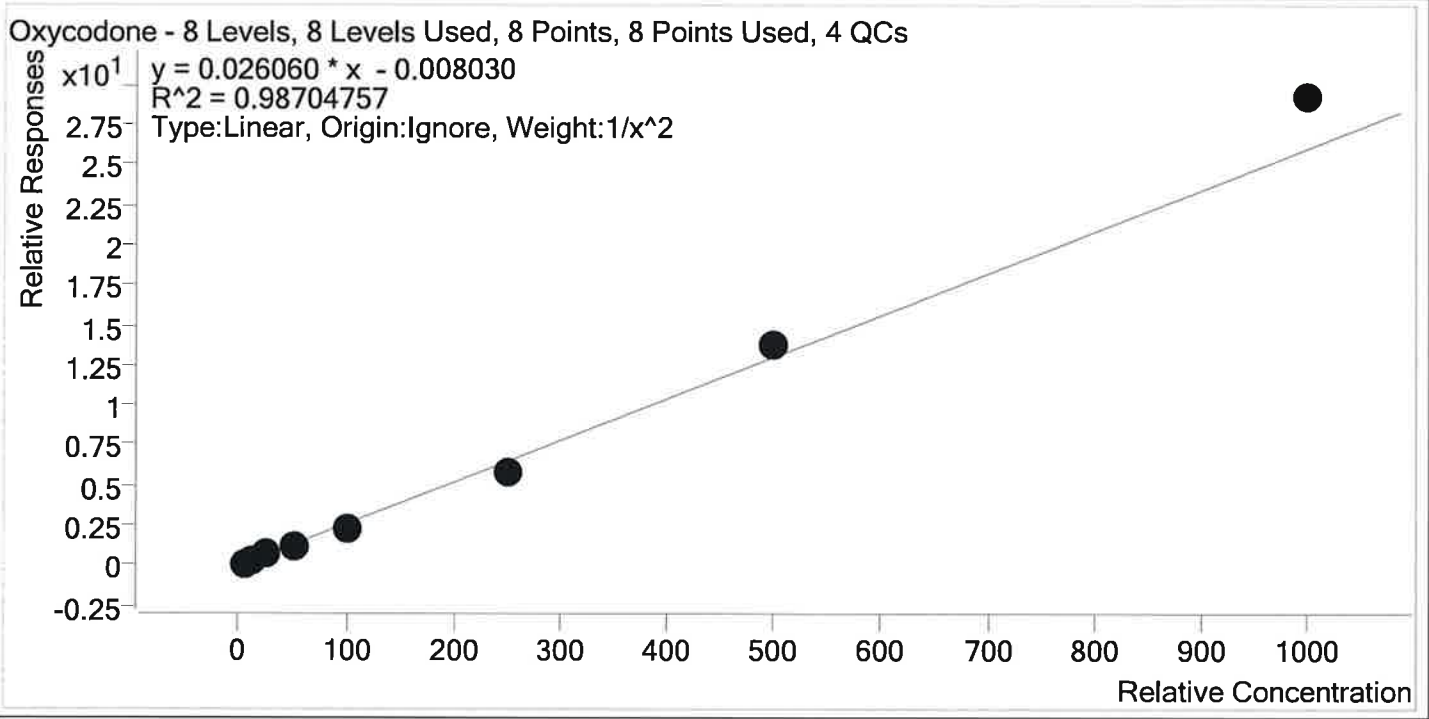
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	x	5.0	10.4	207.5
p1 Cal 2- 10ng	2	x	10.0	14.4	143.7
p1 Cal 3 -25ng r	3	✓	25.0	29.1	116.4
p1 Cal 4-50ng	4	✓	50.0	48.2	96.4
p1 Cal 5-100ng	5	✓	100.0	95.2	95.2
p1 Cal 6-250ng	6	✓	250.0	221.4	88.6
p1 Cal 7-500ng	7	✓	500.0	502.5	100.5
p1 Cal 8-1000ng	8	✓	1000.0	1028.5	102.9

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wklist 3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte Oxycodone **Internal Standard** Oxycodone-D6



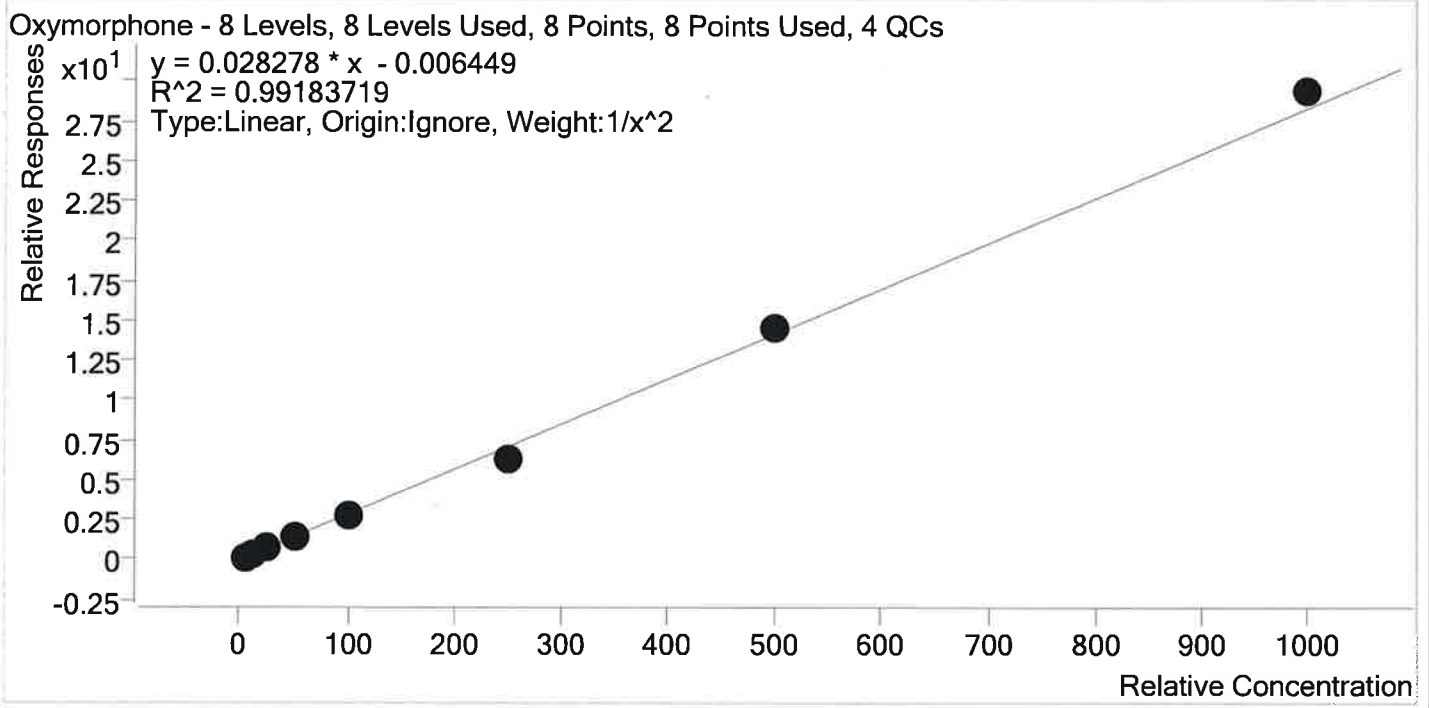
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.8
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.3
p1 Cal 3 -25ng r	3	✓	25.0	28.3	113.3
p1 Cal 4-50ng	4	✓	50.0	45.2	90.5
p1 Cal 5-100ng	5	✓	100.0	89.1	89.1
p1 Cal 6-250ng	6	✓	250.0	223.5	89.4
p1 Cal 7-500ng	7	✓	500.0	531.9	106.4
p1 Cal 8-1000ng	8	✓	1000.0	1123.3	112.3

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st
3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte Oxymorphone **Internal Standard** Oxymorphone-D3



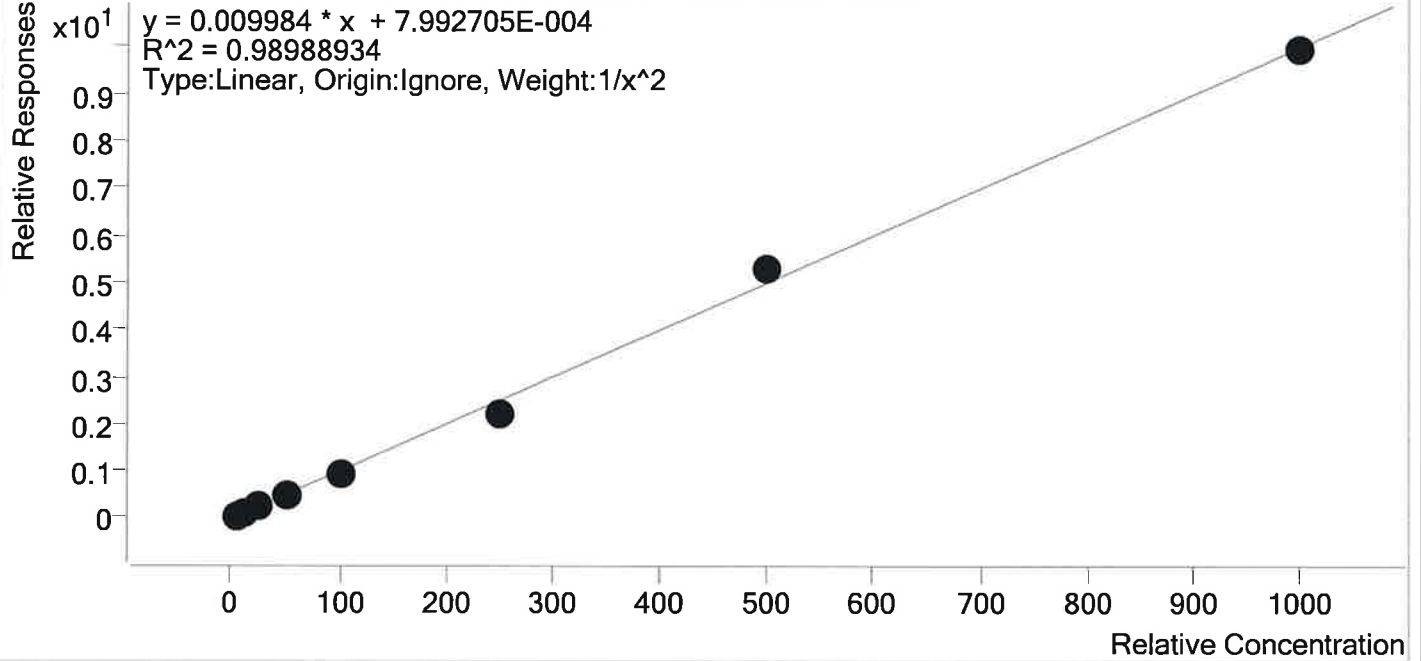
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.0
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.7
p1 Cal 3 -25ng r	3	✓	25.0	28.9	115.7
p1 Cal 4-50ng	4	✓	50.0	47.1	94.2
p1 Cal 5-100ng	5	✓	100.0	94.8	94.8
p1 Cal 6-250ng	6	✓	250.0	225.6	90.2
p1 Cal 7-500ng	7	✓	500.0	517.6	103.5
p1 Cal 8-1000ng	8	✓	1000.0	1038.2	103.8



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st 3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte Phentermine **Internal Standard** Phentermine-D5

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



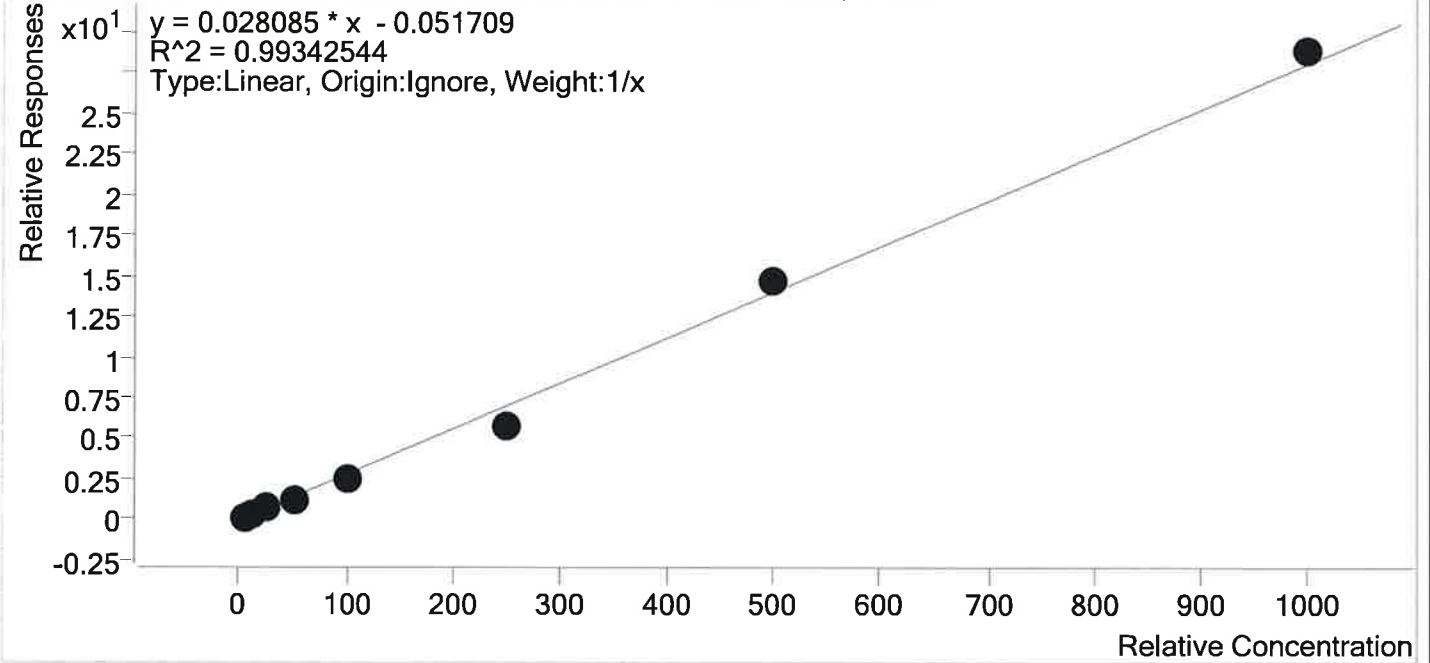
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.0
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.7
p1 Cal 3 -25ng r	3	✓	25.0	29.4	117.5
p1 Cal 4-50ng	4	✓	50.0	47.7	95.4
p1 Cal 5-100ng	5	✓	100.0	95.8	95.8
p1 Cal 6-250ng	6	✓	250.0	219.8	87.9
p1 Cal 7-500ng	7	✓	500.0	530.9	106.2
p1 Cal 8-1000ng	8	✓	1000.0	994.8	99.5



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st
 3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte Promethazine **Internal Standard** Promethazine-D3

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

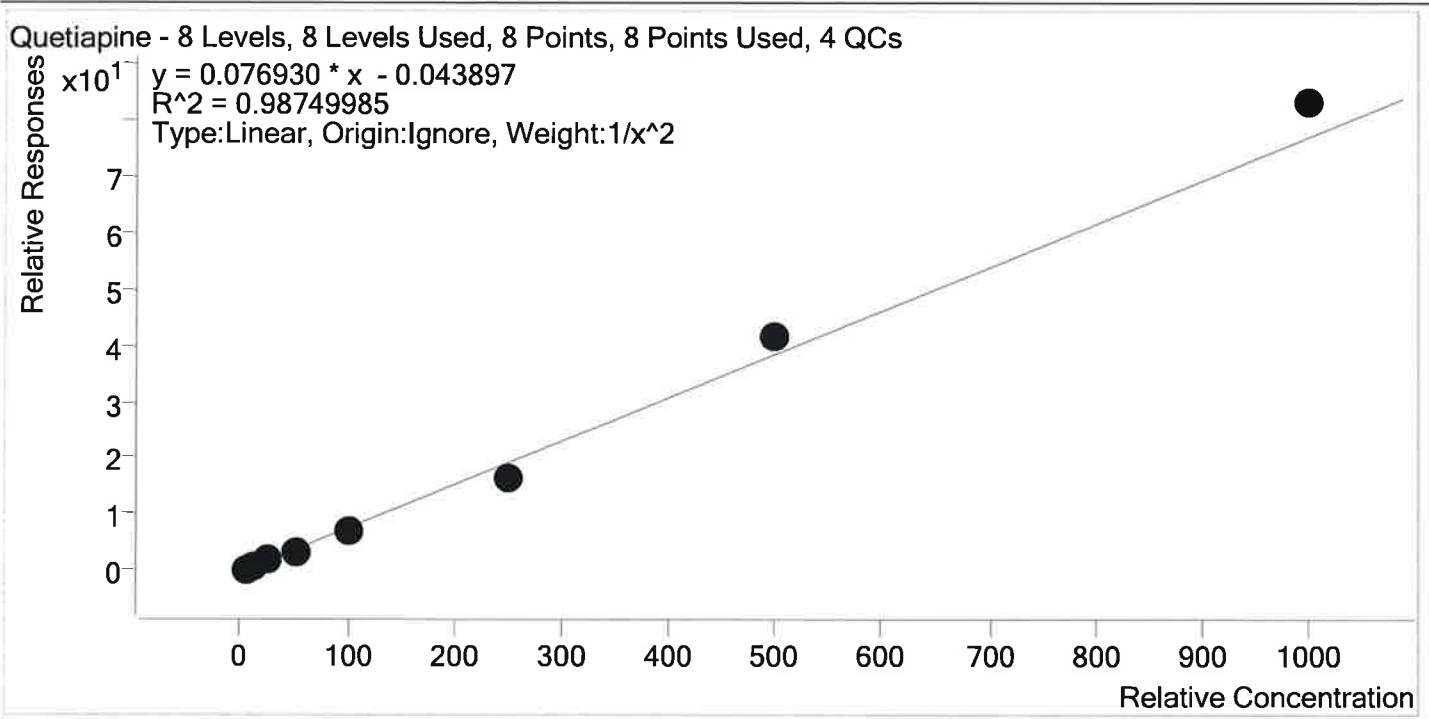


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	6.1	121.0
p1 Cal 2- 10ng	2	✓	10.0	10.5	104.9
p1 Cal 3 -25ng r	3	✓	25.0	27.1	108.5
p1 Cal 4-50ng	4	✓	50.0	43.2	86.4
p1 Cal 5-100ng	5	✓	100.0	86.8	86.8
p1 Cal 6-250ng	6	✓	250.0	210.3	84.1
p1 Cal 7-500ng	7	✓	500.0	527.2	105.4
p1 Cal 8-1000ng	8	✓	1000.0	1028.8	102.9



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st
 3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte Quetiapine **Internal Standard** Quetiapine-D8

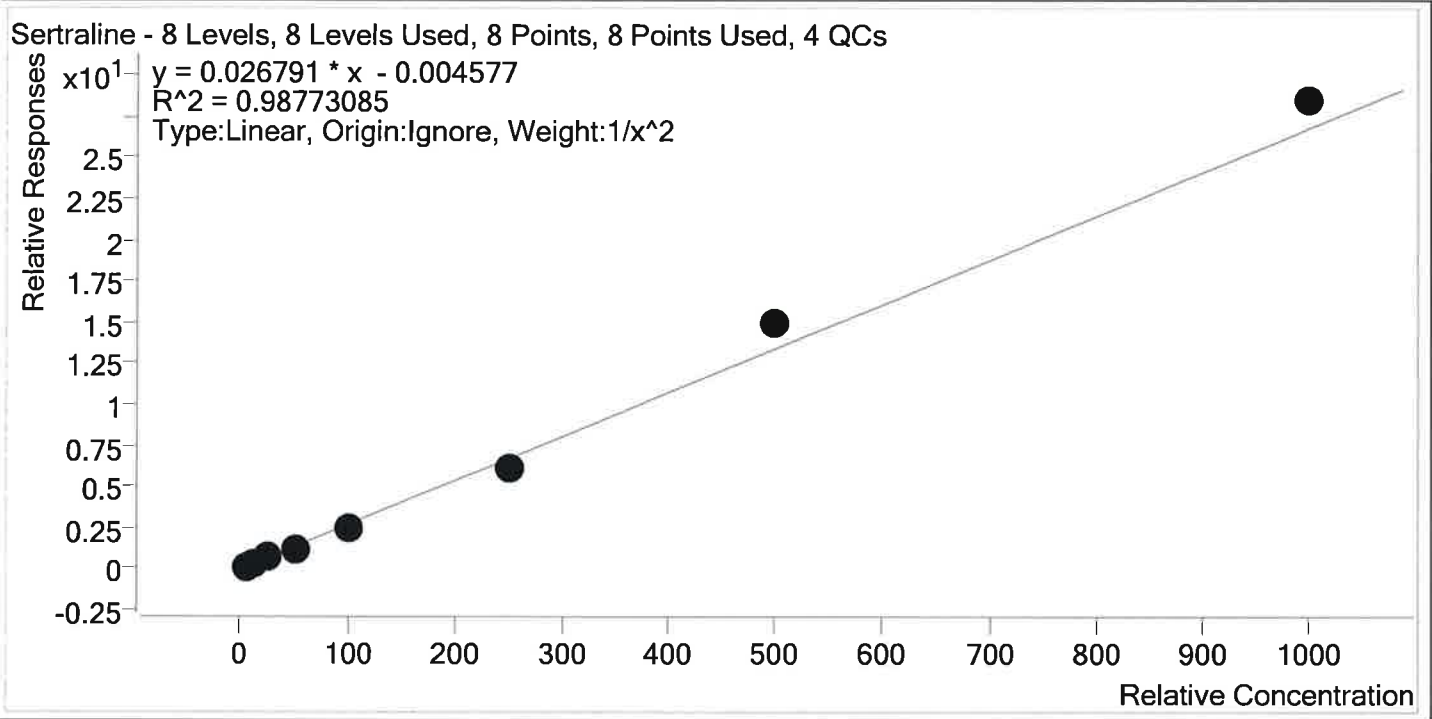


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.1
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.0
p1 Cal 3 -25ng r	3	✓	25.0	28.6	114.6
p1 Cal 4-50ng	4	✓	50.0	45.3	90.6
p1 Cal 5-100ng	5	✓	100.0	92.0	92.0
p1 Cal 6-250ng	6	✓	250.0	218.3	87.3
p1 Cal 7-500ng	7	✓	500.0	543.2	108.6
p1 Cal 8-1000ng	8	✓	1000.0	1078.5	107.8



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st
 3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte Sertraline **Internal Standard** Sertraline-D3



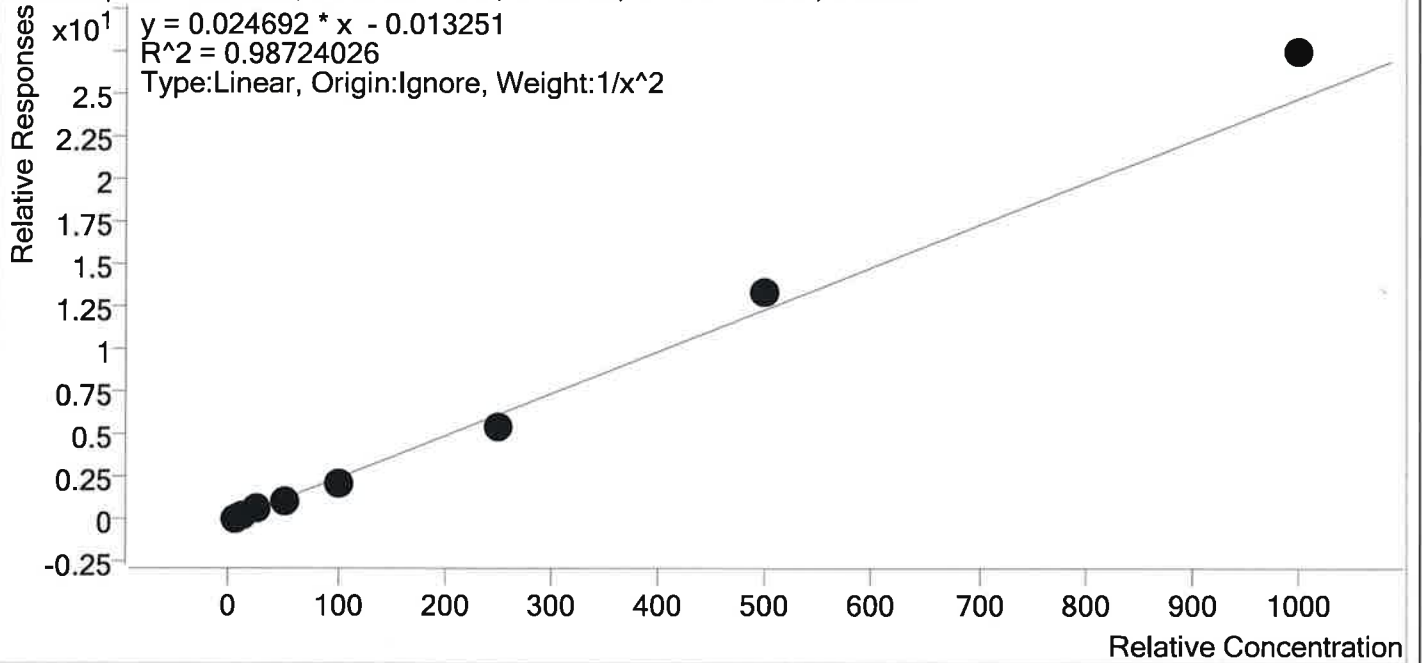
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.7
p1 Cal 2- 10ng	2	✓	10.0	9.6	96.2
p1 Cal 3 -25ng r	3	✓	25.0	28.5	114.1
p1 Cal 4-50ng	4	✓	50.0	44.6	89.1
p1 Cal 5-100ng	5	✓	100.0	90.5	90.5
p1 Cal 6-250ng	6	✓	250.0	229.6	91.8
p1 Cal 7-500ng	7	✓	500.0	556.2	111.2
p1 Cal 8-1000ng	8	✓	1000.0	1063.9	106.4



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st
 3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte Temazepam **Internal Standard** Temazepam-D5

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

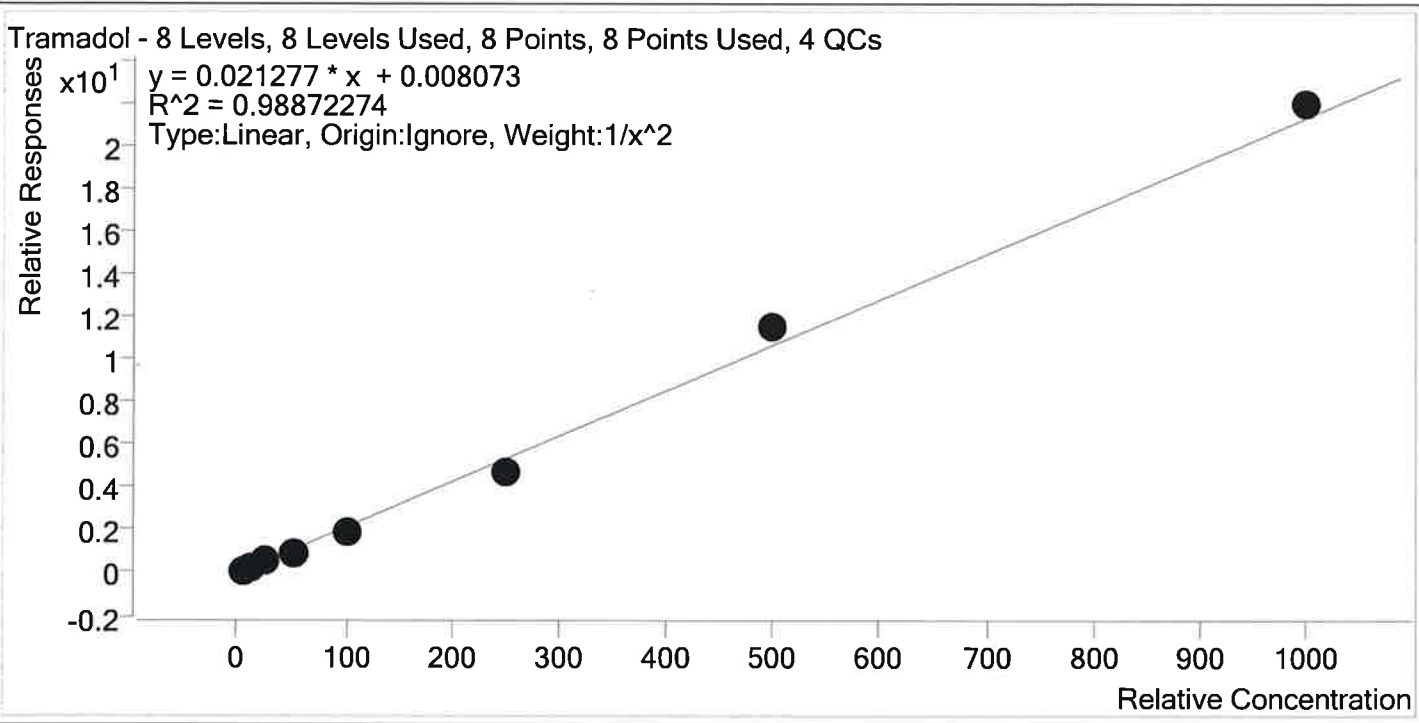


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.9
p1 Cal 2- 10ng	2	✓	10.0	9.8	98.3
p1 Cal 3 -25ng r	3	✓	25.0	28.2	112.6
p1 Cal 4-50ng	4	✓	50.0	44.7	89.4
p1 Cal 5-100ng	5	✓	100.0	91.3	91.3
p1 Cal 6-250ng	6	✓	250.0	221.6	88.6
p1 Cal 7-500ng	7	✓	500.0	544.1	108.8
p1 Cal 8-1000ng	8	✓	1000.0	1110.8	111.1



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st
 3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte Tramadol **Internal Standard** Tramadol-13C-D3

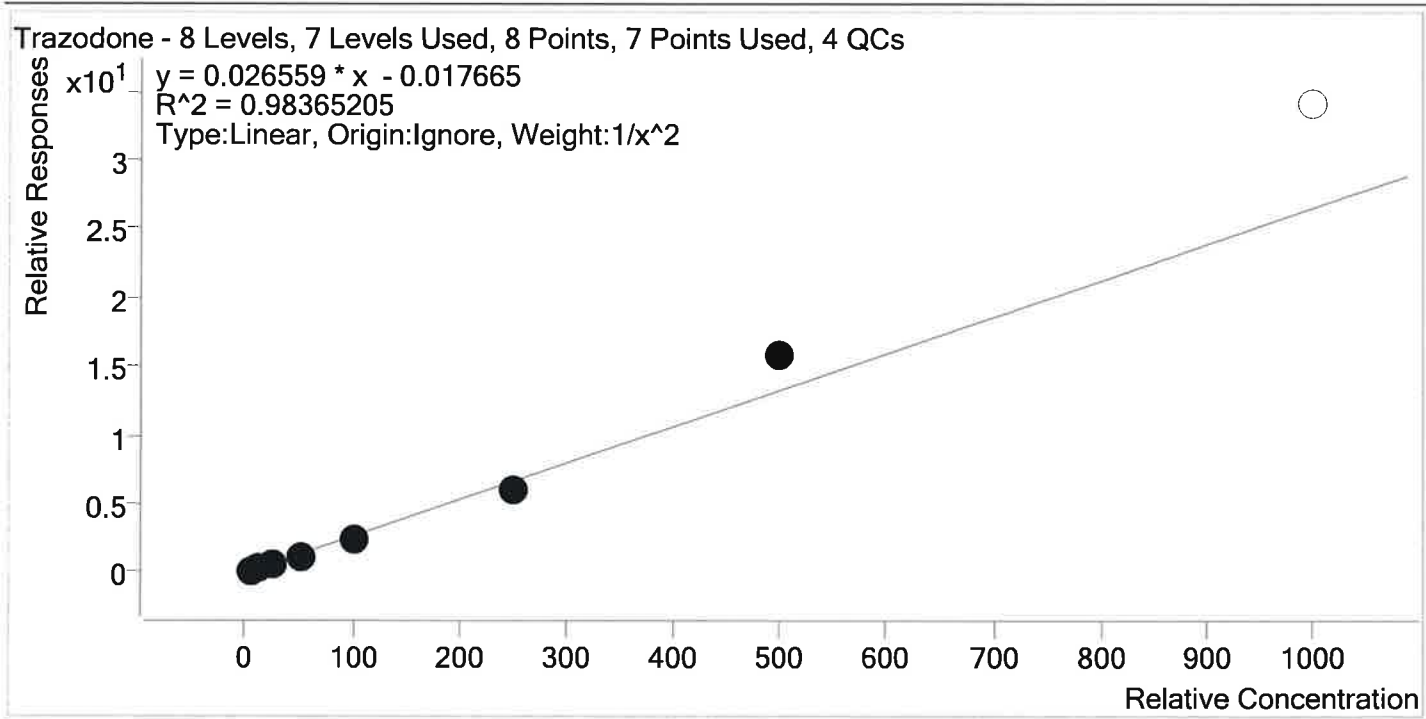


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.8
p1 Cal 2- 10ng	2	✓	10.0	10.5	105.0
p1 Cal 3 -25ng r	3	✓	25.0	28.8	115.3
p1 Cal 4-50ng	4	✓	50.0	45.9	91.7
p1 Cal 5-100ng	5	✓	100.0	91.4	91.4
p1 Cal 6-250ng	6	✓	250.0	224.0	89.6
p1 Cal 7-500ng	7	✓	500.0	540.8	108.2
p1 Cal 8-1000ng	8	✓	1000.0	1030.7	103.1



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wklist
 3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte Trazodone **Internal Standard** Trazodone-D6

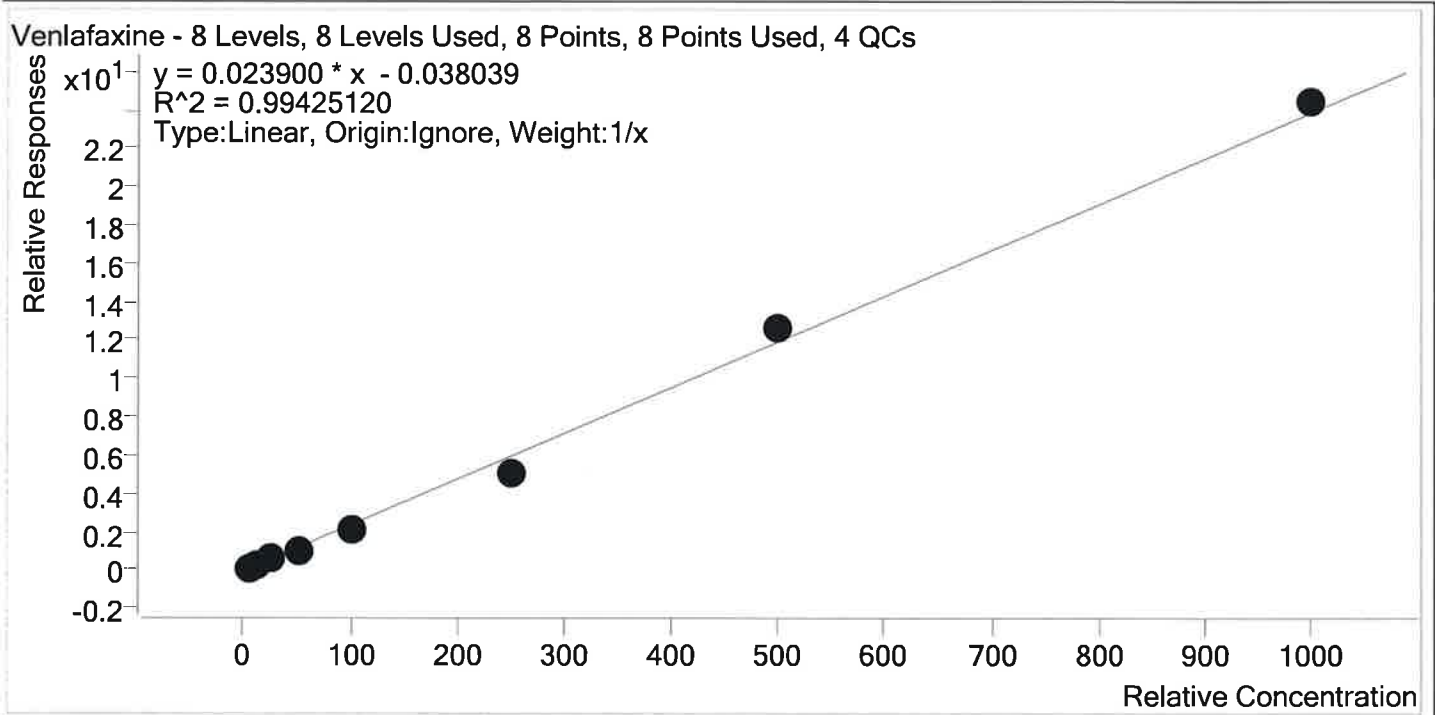


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.0
p1 Cal 2- 10ng	2	✓	10.0	9.7	97.0
p1 Cal 3 -25ng r	3	✓	25.0	27.4	109.6
p1 Cal 4-50ng	4	✓	50.0	44.7	89.4
p1 Cal 5-100ng	5	✓	100.0	91.3	91.3
p1 Cal 6-250ng	6	✓	250.0	231.4	92.6
p1 Cal 7-500ng	7	✓	500.0	595.8	119.2
p1 Cal 8-1000ng	8	×	1000.0	1284.4	128.4



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st
 3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 AM
Analyst Name ISP\datastor
Analyte Venlafaxine **Internal Standard** Venlafaxine-D6

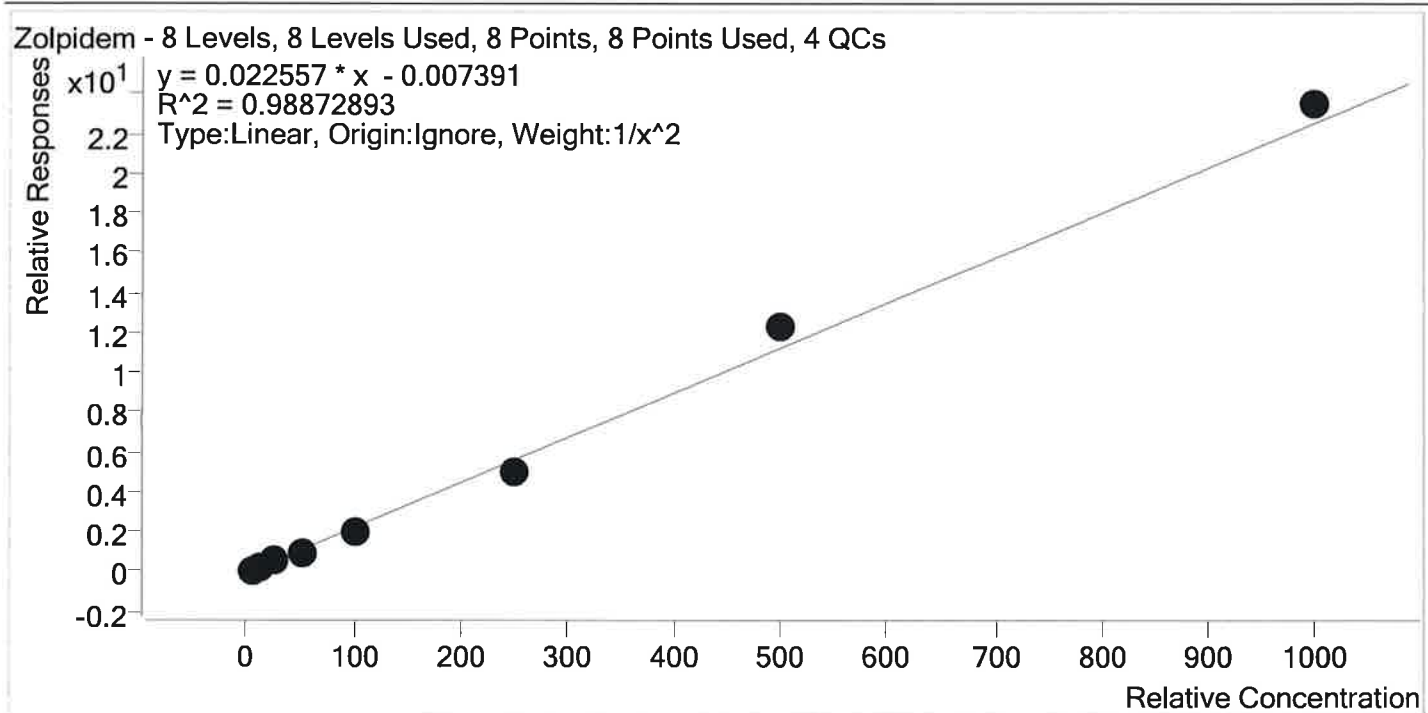


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.8	116.8
p1 Cal 2- 10ng	2	✓	10.0	10.4	104.2
p1 Cal 3 -25ng r	3	✓	25.0	28.0	111.9
p1 Cal 4-50ng	4	✓	50.0	43.7	87.3
p1 Cal 5-100ng	5	✓	100.0	85.9	85.9
p1 Cal 6-250ng	6	✓	250.0	215.0	86.0
p1 Cal 7-500ng	7	✓	500.0	527.1	105.4
p1 Cal 8-1000ng	8	✓	1000.0	1024.0	102.4



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st
 3502 TS.batch.bin
Last Cal. Update 6/25/2019 11:30 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	98.7
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.1
p1 Cal 3 -25ng r	3	✓	25.0	28.9	115.5
p1 Cal 4-50ng	4	✓	50.0	45.5	91.0
p1 Cal 5-100ng	5	✓	100.0	92.5	92.5
p1 Cal 6-250ng	6	✓	250.0	223.5	89.4
p1 Cal 7-500ng	7	✓	500.0	547.2	109.4
p1 Cal 8-1000ng	8	✓	1000.0	1042.9	104.3

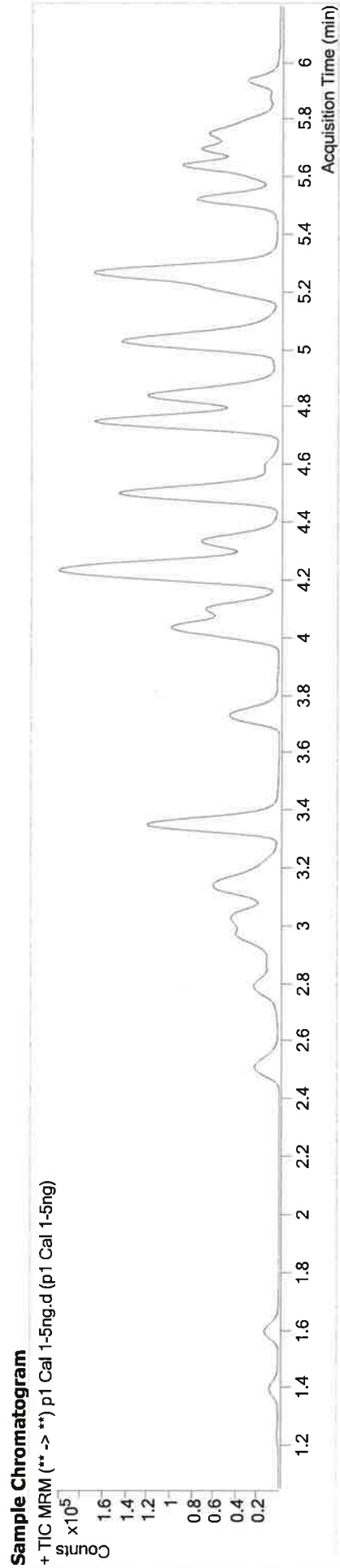
TS



AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wklist 3502 TS.batch.bin
Calibration Last Update 6/25/2019 11:30:48 AM

Instrument Type	Falco Cal	Data File	p1 Cal 1-5ng.d
Acq. Method	MDQ P1 Combined	Sample	p1 Cal 1-5ng
Sample Position	P2-H12	Operator	
Injection Volume	1	Comment	
Acq. Date-Time	6/24/2019 10:09:48 PM		



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.130	1076	333.03	73.3	455.26	65444	0.5106 ng/ml
7-aminoclonazepam	4.245	5465	3793.88	82.4	∞	45532	4.8300 ng/ml
a-hydroxyalprazolam	5.679	1381	60.31	55.1	30.73	13047	5.1348 ng/ml
alpha-PVP	4.352	21095	2269.87	52.6	451.56	195732	4.9927 ng/ml
Alprazolam	5.763	8757	161.87	107.2	300.77	53780	6.1541 ng/ml
Amphetamine	3.041	29469	468.16	56.8	1186.90	80175	4.8445 ng/ml
Benzoyllecgonine	3.868	941	84.75	5.1 Low	28.82	4002	15.8500 ng/ml
Buprenorphine	5.760	780	26.27	10.1 Low	56.42	64323	0.6359 ng/ml
Bupropion	4.767	71022	3782.91	58.4	2110.93	506326	5.8733 ng/ml
Carisoprodol	5.711	7442	288.29	56.7	53.90	78490	4.9691 ng/ml
Citalopram	5.213	13129	181.20	43.3	4327.52	116730	5.7307 ng/ml
Clonazepam	5.592	757	52.79	34.8	34.89	2768	5.0212 ng/ml
Cocaine	4.251	20535	∞	44.0	825.00	391687	5.9037 ng/ml
Codeine	2.570	2477	237.98	102.5	1677.63	22524	5.5174 ng/ml
Cyclobenzaprine	5.615	7252	9969.31	10.7	102.88	57925	5.7625 ng/ml
Dextromethorphan	5.249	7406	150.37	80.2	200.90	71068	4.9329 ng/ml
Dextrorphan	4.107	7339	2306.56	204.7	1766.76	172029	5.8019 ng/ml
Diazepam	5.949	6370	238.04	87.3	280.73	56834	5.0745 ng/ml



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.540	6618	17707.09	65.3	50.66	70969	4.8413 ng/ml
Diphenhydramine	5.283	38020	1127.05	33.7	6017.85	404859	5.8412 ng/ml
Doxylamine	4.521	50104	7429.48	95.9	609.11	438386	5.8599 ng/ml
EDDP	5.248	9726	571.88	42.6	1453.35	103146	6.1530 ng/ml
Fentanyl	5.077	920	815.19	74.9	∞	87713	0.5049 ng/ml
Fluoxetine	5.701	7831	208.10	9.1	957.80	62662	5.9296 ng/ml
Hydrocodone	3.004	6609	95.89	42.2	112.32	80356	4.9064 ng/ml
Hydromorphone	1.608	5578	235.71	76.6	90.25	40250	5.0517 ng/ml
Ketamine	4.034	17236	569.89	36.0	163.52	157865	4.9999 ng/ml
Lamotrigine	4.269	1830	163.04	79.8	∞	157865	4.6007 ng/ml
Lorazepam	5.734	889	17.95	61.8	1.84 Low	2768	1.2070 ng/ml
Meprobamate	4.890	3193	213.72	26.1	∞	27991	4.8684 ng/ml
Methadone	5.647	18917	419.41	51.0	387.81	179608	5.8985 ng/ml
Methamphetamine	3.210	27866	199.30	41.2	38.40	209479	4.6682 ng/ml
Metoprolol	4.314	5553	∞	91.2	465.81	397725	4.8430 ng/ml
Mirtazapine	4.602	23267	9146.90	48.0	305.40	195732	4.8810 ng/ml
Mitragynine	5.205	4135	7397.98	37.5	1775.23	179608	4.2614 ng/ml
Morphine	1.246	1296	2041.74	25.4	435.24	3243	5.5869 ng/ml
Norbuprenorphine	4.973	162	66.20	90.9	97.78	9519	0.6118 ng/ml
Nordiazepam	5.888	1467	189.77	59.5	82.47	9287	4.8800 ng/ml
Norfentanyl	4.069	2740	463.90	35.2	40.67	242147	0.5046 ng/ml
Norhydrocodone	3.053	1582	73.71	45.6	751.88	99944	6.1621 ng/ml
Noroxycodone	2.894	4391	109.15	49.4	114.81	31589	4.8396 ng/ml
O-desmethyl-tramadol	3.365	41980	1310.88	6.5	150.80	382673	4.9684 ng/ml
Oxazepam	5.744	1312	44.80	87.7 High	3.90 Low	9339	10.3763 ng/ml
Oxycodone	2.820	11785	61.33	31.2	27.20	97628	4.9402 ng/ml
Oxymorphone	1.403	3699	160.67	49.1	1529.43	28006	4.8994 ng/ml
Phentermine	3.766	8328	144.33	4.0	11.97	169151	4.8508 ng/ml
Promethazine	5.532	13787	403.84	27.2	88.27	116594	6.0515 ng/ml
Quetiapine	5.528	18477	3324.46	60.0	11358.35	55434	4.9034 ng/ml
Sertraline	5.777	4389	∞	85.1	186.46	33690	5.0335 ng/ml
Temazepam	5.812	4990	67.25	30.5	8.49 Low	45315	4.9961 ng/ml
Tramadol	4.234	43761	8380.19	3.4	51.29	397725	4.7919 ng/ml
Trazodone	5.097	12891	14020.69	76.5	1715.19	110631	5.0523 ng/ml
Venlafaxine	5.024	32896	529.01	37.7	103.51	324089	5.8386 ng/ml
Zolpidem	4.860	37121	∞	30.6	1391.03	357079	4.9363 ng/ml

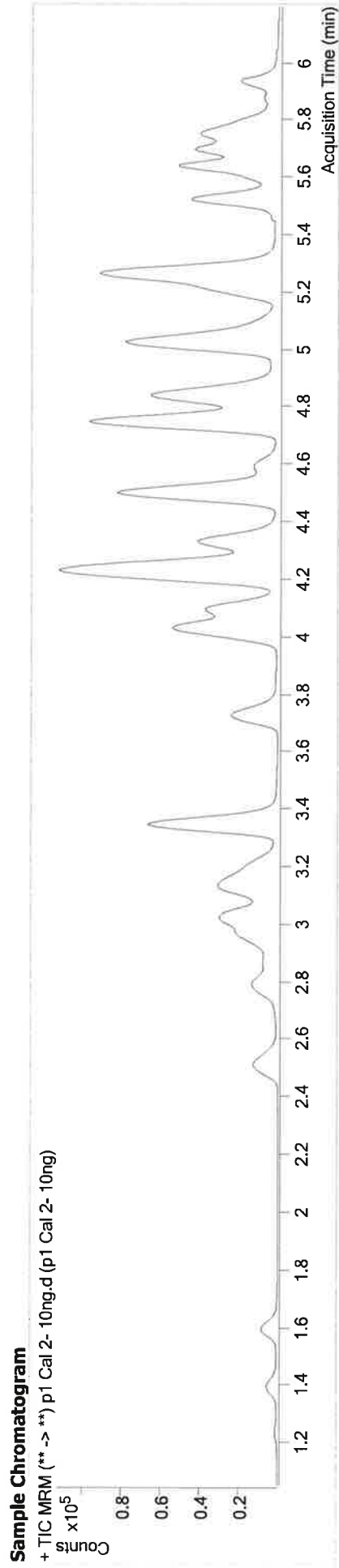


AM #28 Multi-Drug Quant. Results

Batch results Calibration Last Update D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wklist 3502 TS.batch.bin
6/25/2019 11:30:48 AM

Instrument Type Falco
Acq. Method Cal
Sample Position MDQ P1 Combined 011619.m
Injection Volume P2-G12
Acq. Date-Time 1
Sample Info. 6/24/2019 10:20:25 PM

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



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.123	1066	135.42	74.0	161.65	32973	0.9505 ng/ml
7-aminoclonazepam	4.239	5840	232.72	80.5	1165.31	23284	10.0967 ng/ml
a-hydroxylprazolam	5.679	1300	73.39	69.3	220.73	6689	9.1880 ng/ml
alpha-PVP	4.345	21285	1641.02	52.0	556.28	94179	9.8338 ng/ml
Alprazolam	5.763	9132	627.29	106.3	231.28	27869	10.2964 ng/ml
Amphetamine	3.041	31268	500.78	56.4	660.56	40180	10.2094 ng/ml
Benzoyllecgonine	3.855	906	89.27	5.5 Low	∞	1941	23.6761 ng/ml
Buprenorphine	5.760	953	∞	13.3	55.49	31116	1.2710 ng/ml
Bupropion	4.767	70556	3582.09	59.2	551.18	248072	10.3077 ng/ml
Carisoprodol	5.711	8359	4613.52	54.7	42.51	41500	10.0538 ng/ml
Citalopram	5.206	13247	1080.25	42.2	11498.69	54931	10.6089 ng/ml
Clonazepam	5.592	884	69.12	39.2	512.03	1405	10.6103 ng/ml
Cocaine	4.251	20386	92804.45	43.4	4826.40	191363	10.4337 ng/ml
Codeine	2.563	2554	182.32	100.2	132.36	11433	10.1712 ng/ml
Cyclobenzaprine	5.615	6967	∞	10.9	∞	26719	10.4384 ng/ml
Dextromethorphan	5.249	7476	12775.44	79.0	1385.59	33087	10.1494 ng/ml
Dextrorphan	4.107	7541	569.95	203.4	1267.54	84682	10.4635 ng/ml
Diazepam	5.949	6287	124.53	92.0	138.08	28980	9.4851 ng/ml



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.534	6836	2682.63	65.8	4222.55	35144	10.1444 ng/ml
Diphenhydramine	5.276	37856	9024.87	34.2	778.43	194356	10.4394 ng/ml
Doxylamine	4.514	49719	50905.47	98.0	140438.49	212270	10.3673 ng/ml
EDDP	5.242	9278	2262.50	42.8	192.76	47198	10.6681 ng/ml
Fentanyl	5.063	849	352.44	77.2	∞	40447	0.9762 ng/ml
Fluoxetine	5.701	7777	553.02	10.0	465.88	29455	10.3964 ng/ml
Hydrocodone	3.004	7080	78.70	40.3	209.38	40017	9.9976 ng/ml
Hydromorphone	1.608	5672	1156.67	80.1	294.02	20685	9.6305 ng/ml
Ketamine	4.027	16812	633.26	37.9	104.33	77162	9.6951 ng/ml
Lamotrigine	4.269	2005	186.97	76.9	116.68	77162	10.9670 ng/ml
Lorazepam	5.741	1098	11.00	122.1 High	3.73 Low	1405	8.0141 ng/ml
Meprobamate	4.890	3581	305.55	26.4	30.91	14352	10.6035 ng/ml
Methadone	5.647	18192	313.20	54.1	501.88	86725	10.3833 ng/ml
Methamphetamine	3.210	29964	101.88	40.9	478.86	100524	10.8143 ng/ml
Metoprolol	4.307	5625	896.99	90.4	∞	196730	10.0084 ng/ml
Mirtazapine	4.596	22811	3304.76	47.5	5347.85	94179	9.8680 ng/ml
Mitragynine	5.205	4030	∞	38.7	3584.81	86725	9.7861 ng/ml
Morphine	1.246	1460	∞	23.8	∞	1664	10.4701 ng/ml
Norbuprenorphine	4.966	106	100.98	106.5	197.31	4571	0.8550 ng/ml
Nordiazepam	5.888	1671	995.45	57.0	548.03	4771	10.3347 ng/ml
Norfentanyl	4.069	2909	3125.15	35.5	61.27	123031	0.9811 ng/ml
Norhydrocodone	3.053	1604	75.10	42.4	41.16	50385	9.3922 ng/ml
Noroxycodone	2.894	4668	270.93	46.9	70.20	15739	10.2232 ng/ml
O-desmethyl-tramadol	3.358	42953	2158.53	6.3	482.93	187450	9.9505 ng/ml
Oxazepam	5.744	1141	4.55 Low	81.6	1.24 Low	4329	14.3681 ng/ml
Oxycodone	2.813	12418	93.03	32.6	445.72	49033	10.0261 ng/ml
Oxymorphone	1.403	3946	198.76	49.3	183.95	14324	9.9696 ng/ml
Phentermine	3.766	8549	135.75	4.1	14.41	84387	10.0663 ng/ml
Promethazine	5.532	12669	548.98	28.4	313.81	52163	10.4888 ng/ml
Quetiapine	5.528	19166	397.80	58.8	873.04	26152	10.0970 ng/ml
Sertraline	5.770	4082	106.27	92.0	219.36	16124	9.6201 ng/ml
Temazepam	5.805	5256	42.96	32.4	8.75 Low	22913	9.8270 ng/ml
Tramadol	4.227	45523	15158.15	3.5	38.12	196730	10.4964 ng/ml
Trazodone	5.097	12446	24435.05	77.4	∞	51871	9.6993 ng/ml
Venlafaxine	5.024	33697	773.70	37.1	115.90	159650	10.4229 ng/ml
Zolpidem	4.860	37469	2423.40	30.6	2242.89	173399	9.9069 ng/ml

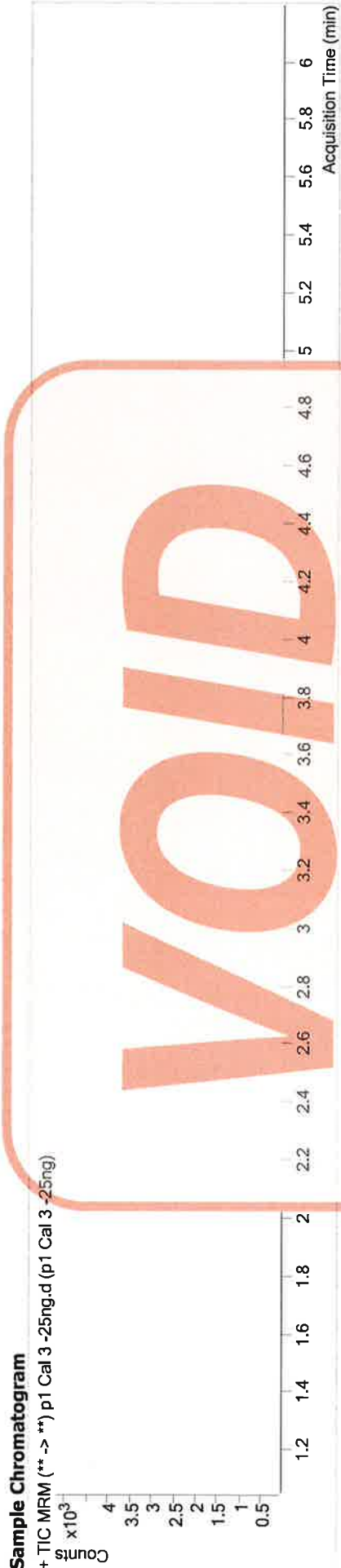
15



AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wklst 3502 TS.batch.bin
Calibration Last Update 6/25/2019 11:30:48 AM

Instrument Type	Falco Cal	Data File	p1 Cal 3 -25ng.d
Acq. Method	MDQ P1 Combined 011619.m	Sample Operator	p1 Cal 3 -25ng
Sample Position	P2-F12	Comment	
Injection Volume	1		
Acq. Date-Time	6/24/2019 10:30:53 PM		
Sample Info.			



Calibrator failed to inject on initial injection. QC was re injected.

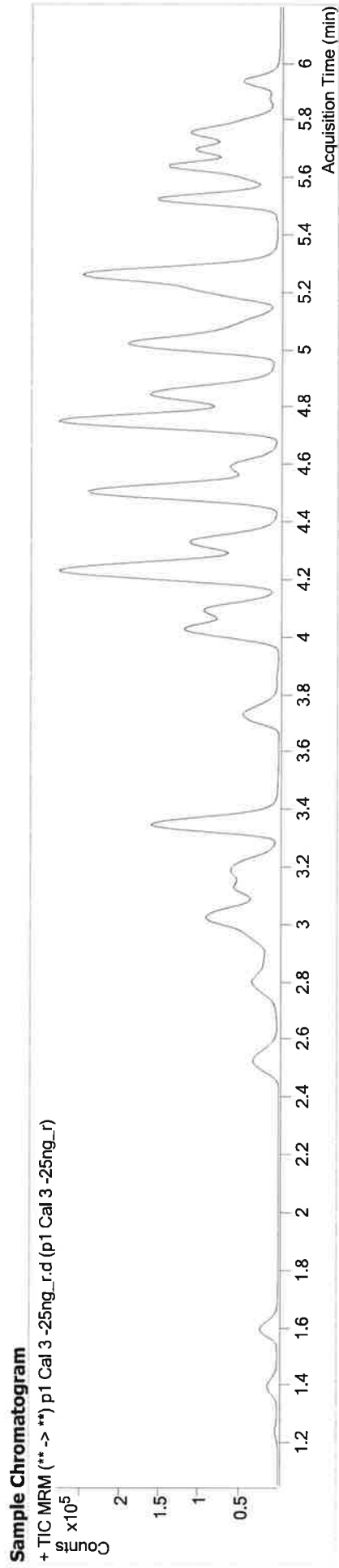
TS



AM #28 Multi-Drug Quant. Results

Batch results Calibration Last Update D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st 3502 TS.batch.bin 6/25/2019 11:30:48 AM

Instrument Type	Falco Cal	Data File	p1 Cal 3 -25ng_r.d
Acq. Method	MDQ P1 Combined 011619.m	Sample	p1 Cal 3 -25ng_r
Sample Position	P2-F12	Operator	
Injection Volume	1	Comment	*Calibrator failed to inject on initial injection. Calibrator was re-injected --TS
Acq. Date-Time	6/25/2019 9:54:51 AM		
Sample Info.			



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.123	5687	2501.80	70.9	1286.64	58179	2.7628 ng/ml
7-aminoclonazepam	4.239	30031	∞	82.6	3464.93	40578	29.8005 ng/ml
a-hydroxyalprazolam	5.679	7354	130.65	66.6	168.76	11937	28.5153 ng/ml
alpha-PVP	4.345	118537	13408.68	51.2	2026.42	176502	28.0783 ng/ml
Alprazolam	5.763	50380	1253.15	104.4	2036.43	49620	27.5749 ng/ml
Amphetamine	3.035	153480	3695.20	56.0	2546.77	69213	29.0147 ng/ml
Benzoyllecgonine	3.862	2994	608.05	7.6	41.53	3552	36.3921 ng/ml
Buprenorphine	5.767	4722	173.59	16.3	399.38	62003	2.8351 ng/ml
Bupropion	4.767	391108	24723.05	59.2	2764.53	460806	27.6683 ng/ml
Carisoprodol	5.711	39443	27580.16	57.2	∞	70229	27.2337 ng/ml
Citalopram	5.206	76521	1423.91	41.6	1660.93	109324	27.9998 ng/ml
Clonazepam	5.592	4684	439.38	37.1	3104.31	2662	28.3568 ng/ml
Cocaine	4.245	110242	226157.61	43.7	148486.96	352629	27.6906 ng/ml
Codine	2.563	13729	554.09	101.5	516.17	20541	28.4335 ng/ml
Cyclobenzaprine	5.615	45080	3466.61	10.0	∞	59545	27.5592 ng/ml
Dextromethorphan	5.249	43815	4046.07	77.6	618.59	68753	27.7733 ng/ml
Dextrorphan	4.101	41752	3294.64	205.0	3519.64	159507	27.8204 ng/ml
Diazepam	5.949	34558	590.48	87.3	887.27	52454	28.0734 ng/ml



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.540	36368	17359.95	68.0	15960.98	64997	29.2615 ng/ml
Diphenhydramine	5.276	220677	1415.60	34.1	927.85	386216	27.6077 ng/ml
Doxylamine	4.514	279471	∞	97.1	23468.99	401749	27.7083 ng/ml
EDDP	5.242	48937	1161.97	40.7	∞	86761	26.8898 ng/ml
Fentanyl	5.070	5208	231.27	75.5	3017.68	86349	2.7414 ng/ml
Fluoxetine	5.701	52329	∞	9.8	4953.00	64687	27.9016 ng/ml
Hydrocodone	3.004	38822	146.78	39.4	96.41	72774	29.1719 ng/ml
Hydromorphone	1.601	29954	1161.46	77.5	574.16	36639	27.9802 ng/ml
Ketamine	4.027	93965	3121.13	37.2	455.28	143710	28.5272 ng/ml
Lamotrigine	4.262	9857	1343.57	79.5	1510.50	143710	29.8120 ng/ml
Lorazepam	5.734	5572	81.86	54.7	92.53	2662	27.4213 ng/ml
Meprobamate	4.884	16869	21078.04	27.1	87.51	26488	27.0026 ng/ml
Methadone	5.647	110488	1779.83	50.1	5054.54	177590	28.0918 ng/ml
Methamphetamine	3.210	143648	946.11	41.2	859.40	180567	29.3383 ng/ml
Metoprolol	4.307	30449	9824.82	92.5	∞	358154	29.9325 ng/ml
Mirtazapine	4.596	130430	3188.15	47.9	16159.98	176502	29.9547 ng/ml
Mitragynine	5.198	22576	767.91	37.6	9885.29	177590	28.7948 ng/ml
Morphine	1.246	7323	2031.46	23.8	∞	2844	27.8276 ng/ml
Norbuprenorphine	4.973	694	674.84	95.4	448.31	9022	2.9921 ng/ml
Nordiazepam	5.888	8211	2124.65	58.5	2647.27	8547	27.6354 ng/ml
Norfentanyl	4.069	14785	1167.81	37.0	290.88	215260	2.7214 ng/ml
Norhydrocodone	3.053	10569	443.65	43.6	281.77	92075	26.1364 ng/ml
Noroxycodone	2.894	24406	258.57	47.0	85.46	28757	29.0796 ng/ml
O-desmethyl-tramadol	3.358	231474	125812.19	6.4	995.30	348742	28.0784 ng/ml
Oxazepam	5.744	6275	23.50	78.4	33.96	8738	29.1103 ng/ml
Oxycodone	2.813	63832	130.32	32.7	141.21	87462	28.3135 ng/ml
Oxymorphone	1.403	20238	1144.83	48.5	120.97	24936	28.9291 ng/ml
Phentermine	3.759	45174	1310.30	3.8	71.76	153593	29.3771 ng/ml
Promethazine	5.525	88737	54936.73	28.4	4511.32	125015	27.1149 ng/ml
Quetiapine	5.528	108407	130332.56	58.5	94352.38	50191	28.6468 ng/ml
Sertraline	5.770	26990	1443.44	90.7	572.64	35545	28.5137 ng/ml
Temazepam	5.805	28185	287.99	29.8	84.04	41326	28.1573 ng/ml
Tramadol	4.227	222453	21685.63	3.5	1015.01	358154	28.8128 ng/ml
Trazodone	5.097	75052	∞	78.9	45754.41	105736	27.3907 ng/ml
Venlafaxine	5.024	189985	16504.09	38.3	675.42	301280	27.9764 ng/ml
Zolpidem	4.860	209271	24582.16	31.1	260189.50	324837	28.8873 ng/ml

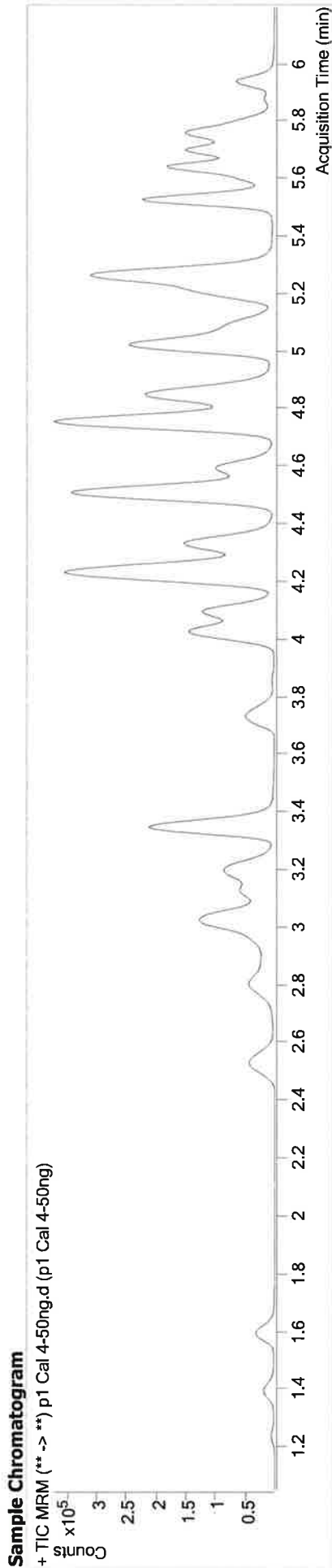
TS



AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wklist 3502 TS.batch.bin
Calibration Last Update 6/25/2019 11:30:48 AM

Instrument Type	Falco Cal	Data File	p1 Cal 4-50ng.d
Acq. Method	MDQ P1 Combined	Sample Operator	p1 Cal 4-50ng
Sample Position	P2-E12	Comment	
Injection Volume	1		
Acq. Date-Time	6/24/2019 10:41:20 PM		



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.123	9565	∞	70.0	647.19	60101	4.4631 ng/ml
7-aminoclonazepam	4.239	48180	7589.99	80.4	8033.77	41084	47.2238 ng/ml
a-hydroxyalprazolam	5.679	12233	203.41	66.3	∞	12520	45.0597 ng/ml
alpha-PVP	4.345	191943	15185.29	50.8	7850.99	176082	45.2132 ng/ml
Alprazolam	5.763	81989	1024.13	103.4	1409.38	50304	43.0173 ng/ml
Amphetamine	3.035	233324	3398.98	54.9	6037.78	66285	46.0321 ng/ml
Benzoyllecgonine	3.862	4732	1512.21	7.1	30.59	3618	52.1056 ng/ml
Buprenorphine	5.767	7191	∞	17.3	535.89	60129	4.3267 ng/ml
Bupropion	4.767	613063	20914.70	59.1	1104.83	443482	44.0847 ng/ml
Carisoprodol	5.711	69776	104041.26	54.3	107.18	74288	45.2437 ng/ml
Citalopram	5.206	118540	10584.07	42.8	3274.57	106955	43.4795 ng/ml
Clonazepam	5.599	7532	659.89	33.6	818.26	2757	43.6411 ng/ml
Cocaine	4.245	180702	588.96	43.9	∞	358593	43.7072 ng/ml
Codeine	2.563	21946	1768.59	100.8	877.98	20403	45.1449 ng/ml
Cyclobenzaprine	5.615	77832	502.77	10.2	772.54	62794	44.2004 ng/ml
Dextromethorphan	5.249	67709	2514.13	81.0	3735.82	66219	44.2788 ng/ml
Dextroproprian	4.101	67535	1013.25	205.4	13850.02	159572	44.0474 ng/ml
Diazepam	5.949	58738	577.52	87.4	944.79	54315	45.8507 ng/ml

TS



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.540	58920	41846.36	68.2	22050.15	65415	47.1303 ng/ml
Diphenhydramine	5.276	340882	1644.03	34.3	720.21	366783	43.9278 ng/ml
Doxylamine	4.514	459578	198279.17	97.2	1255.52	409515	43.7415 ng/ml
EDDP	5.242	80915	1449.25	42.1	219650.65	90415	41.4964 ng/ml
Fentanyl	5.070	8752	∞	73.4	682.41	89245	4.4358 ng/ml
Fluoxetine	5.701	93419	1245.29	9.7	4621.48	71925	43.6387 ng/ml
Hydrocodone	3.004	63205	217.99	40.2	83.73	75939	45.2435 ng/ml
Hydromorphone	1.601	48547	789.26	78.4	1089.58	36937	44.7556 ng/ml
Ketamine	4.027	153103	8713.80	37.1	840.64	146004	45.5795 ng/ml
Lamotrigine	4.262	16012	1786.67	80.9	1785.00	146004	47.9804 ng/ml
Lorazepam	5.734	8963	224.36	53.1	29.52	2757	44.5631 ng/ml
Meprobamate	4.890	27500	1821.46	28.7	748.64	26899	43.3240 ng/ml
Methadone	5.647	171733	11548.65	52.9	2469.11	173340	43.9194 ng/ml
Methamphetamine	3.210	224040	2324.96	41.2	680.24	173874	47.6955 ng/ml
Metoprolol	4.307	50240	71084.00	91.4	∞	368314	48.0779 ng/ml
Mirtazapine	4.596	207357	23897.14	48.1	7803.55	176082	47.6910 ng/ml
Mitragynine	5.198	36460	440.30	38.7	∞	173340	48.4061 ng/ml
Morphine	1.246	12053	3263.01	22.8	1666.68	2782	45.8041 ng/ml
Norbuprenorphine	4.973	945	93.96	101.1	344.80	8494	4.3590 ng/ml
Nordiazepam	5.888	14218	2312.82	57.7	592.58	8764	46.3946 ng/ml
Norfentanyl	4.069	24196	16142.20	36.8	542.23	214974	4.4165 ng/ml
Norhydrocodone	3.053	18700	230.95	44.6	231.96	95218	42.6077 ng/ml
Noroxycodone	2.894	37949	449.48	49.2	190.68	27993	46.3938 ng/ml
O-desmethyl-tramadol	3.358	378990	40538.55	6.3	1018.68	356213	44.7716 ng/ml
Oxazepam	5.744	11030	36.39	72.0	33.87	8441	48.1977 ng/ml
Oxycodone	2.813	102943	301.24	32.0	67.33	87937	45.2293 ng/ml
Oxymorphone	1.396	33332	678.06	47.3	471.67	25146	47.1032 ng/ml
Phentermine	3.759	71382	2929.58	4.0	77.45	149552	47.7249 ng/ml
Promethazine	5.532	149046	4644.46	28.9	1013.26	128290	43.2079 ng/ml
Quetiapine	5.528	171954	1246002.89	60.3	19587.08	49970	45.3016 ng/ml
Sertraline	5.777	46098	1453.46	92.7	∞	38755	44.5700 ng/ml
Temazepam	5.805	47008	420.24	29.6	59.75	43119	44.6889 ng/ml
Tramadol	4.227	362287	34825.89	3.5	322.07	368314	45.8516 ng/ml
Trazodone	5.097	123838	10814.51	79.1	132864.05	105909	44.6912 ng/ml
Venlafaxine	5.024	306120	21187.52	38.2	2038.54	304363	43.6745 ng/ml
Zolpidem	4.860	345924	∞	31.1	∞	339433	45.5067 ng/ml

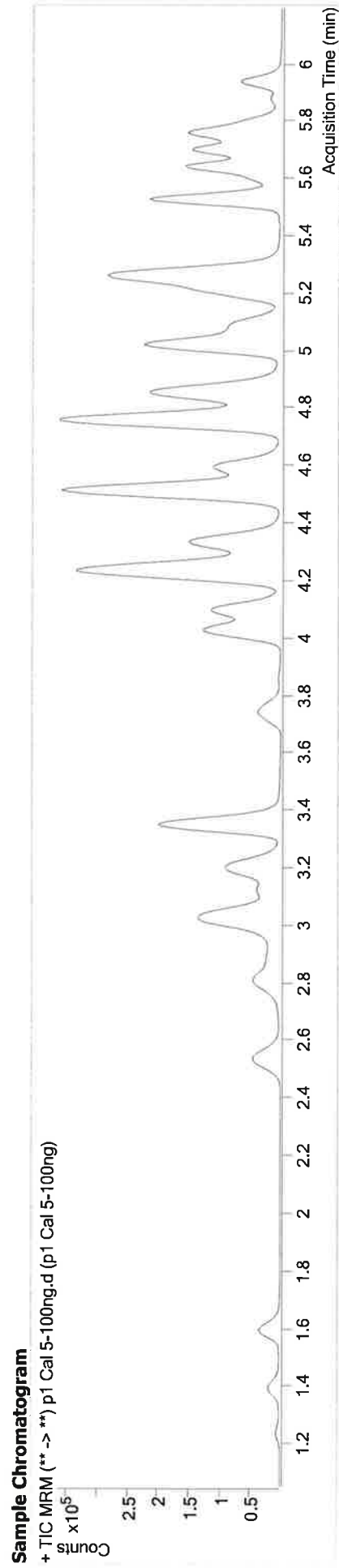


AM #28 Multi-Drug Quant. Results

Batch results Calibration Last Update D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st 3502 TS.batch.bin
6/25/2019 11:30:48 AM

Instrument Type Falco Cal
Acq. Method MDQ P1 Combined 011619.m
Sample Position P2-D12
Injection Volume 1
Acq. Date-Time 6/24/2019 10:51:47 PM
Sample Info.

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



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.123	11685	536.80	73.4	317.51	37604	8.6616 ng/ml
7-aminoclonazepam	4.239	61203	8565.84	81.0	6763.38	25633	96.1517 ng/ml
a-hydroxyalprazolam	5.679	15580	298.96	65.2	232.15	7809	91.7160 ng/ml
alpha-PVP	4.345	230208	16697.34	51.7	34806.16	103927	91.2767 ng/ml
Alprazolam	5.763	105035	1264.36	103.7	3065.47	31514	85.8118 ng/ml
Amphetamine	3.035	273552	2468.09	55.6	6327.66	38493	92.8925 ng/ml
Benzoyllecgonine	3.862	5739	159.13	7.4	∞	2218	95.3370 ng/ml
Buprenorphine	5.767	7942	435.24	17.2	459.41	34551	8.1138 ng/ml
Bupropion	4.767	705625	52964.22	58.9	8079.12	251742	87.7863 ng/ml
Carisoprodol	5.711	93269	77648.01	55.9	683.94	48898	91.4193 ng/ml
Citalopram	5.206	136644	48777.14	40.6	647.36	59660	88.2871 ng/ml
Clonazepam	5.592	9613	∞	35.0	584.99	1599	95.1307 ng/ml
Cocaine	4.251	221974	985.68	44.2	41889.53	217714	86.8826 ng/ml
Codeine	2.563	27517	350.91	101.5	3535.14	12887	88.6272 ng/ml
Cyclobenzaprine	5.615	82856	∞	10.3	510.72	32788	88.6129 ng/ml
Dextromethorphan	5.249	75771	11288.04	79.0	1138.44	35371	92.2524 ng/ml
Dextrorphan	4.107	82600	12466.59	207.0	12972.76	96980	87.1109 ng/ml
Diazepam	5.949	73824	2059.08	86.8	770.75	34405	90.6210 ng/ml

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AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.540	73868	16270.37	68.3	10107.58	40609	95.2237 ng/ml
Diphenhydramine	5.276	381863	16526.24	34.1	1116.78	203013	87.3084 ng/ml
Doxylamine	4.514	555341	641.02	97.1	362718.97	240230	88.4442 ng/ml
EDDP	5.242	134091	2471.14	41.8	874.43	70200	86.3113 ng/ml
Fentanyl	5.070	9381	362.00	73.8	48050.71	47325	8.9323 ng/ml
Fluoxetine	5.701	104209	2712.94	9.6	797.60	38830	88.1280 ng/ml
Hydrocodone	3.004	79498	297.57	40.1	168.47	46336	92.7498 ng/ml
Hydromorphone	1.601	62111	952.88	76.7	1467.35	23206	90.7593 ng/ml
Ketamine	4.027	189593	3157.45	36.9	2482.34	87778	93.5819 ng/ml
Lamotrigine	4.269	19903	3626.84	80.3	676.54	87778	99.7637 ng/ml
Lorazepam	5.734	11594	213.01	52.3	22.47	1599	103.7108 ng/ml
Meprobamate	4.890	34257	5204.34	27.7	211.79	16376	88.6059 ng/ml
Methadone	5.647	188787	1173.60	51.4	1813.67	96206	85.6409 ng/ml
Methamphetamine	3.210	248645	2022.49	40.0	1546.03	97561	94.6171 ng/ml
Metoprolol	4.307	60788	10309.67	92.5	∞	227924	94.0854 ng/ml
Mirtazapine	4.602	235703	97882.85	48.0	76347.54	103927	91.7788 ng/ml
Mitragynine	5.198	39695	785.30	38.0	1139.35	96206	96.0749 ng/ml
Morphine	1.240	15663	989.60	24.2	3059.35	1863	87.4476 ng/ml
Norbuprenorphine	4.973	1103	322.82	100.6	751.03	4637	9.3890 ng/ml
Nordiazepam	5.888	17969	990.67	58.6	3040.66	5812	88.0483 ng/ml
Norfentanyl	4.069	30285	12749.98	36.6	233.57	132411	8.9052 ng/ml
Norhydrocodone	3.053	24163	297.11	43.9	∞	59705	84.6560 ng/ml
Noroxycodone	2.894	47216	∞	48.7	702.84	17211	93.7909 ng/ml
O-desmethyl-tramadol	3.358	473652	26048.84	6.3	975.51	218676	90.7402 ng/ml
Oxazepam	5.744	14389	99.01	63.9	17.84	5219	95.2405 ng/ml
Oxycodone	2.813	130494	∞	31.9	199.40	56401	89.0918 ng/ml
Oxymorphone	1.396	42469	341.03	46.6	366.71	15875	94.8349 ng/ml
Phentermine	3.766	84689	1600.56	4.0	129.31	88498	95.7650 ng/ml
Promethazine	5.532	161441	8385.65	28.3	5101.20	67699	86.7503 ng/ml
Quetiapine	5.528	200313	1480.87	59.6	1315.02	28490	91.9648 ng/ml
Sertraline	5.777	50263	2389.72	91.0	2952.50	20778	90.4642 ng/ml
Temazepam	5.805	60012	537.92	30.9	136.29	26789	91.2601 ng/ml
Tramadol	4.227	445146	28040.66	3.5	413.61	227924	91.4137 ng/ml
Trazodone	5.097	137972	52014.71	78.3	28909.07	57330	91.2803 ng/ml
Venlafaxine	5.024	372127	19072.12	38.6	1694.33	184681	85.9006 ng/ml
Zolpidem	4.860	425542	120227.43	31.1	11296.76	204646	92.5104 ng/ml

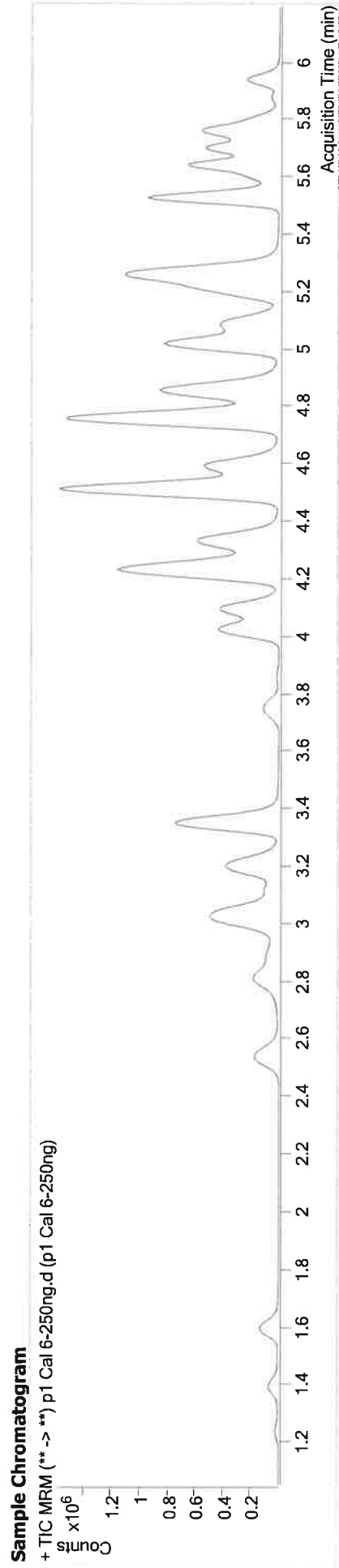
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AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wk1st 3502 TS.batch.bin
Calibration Last Update 6/25/2019 11:30:48 AM

Instrument Type Falco
Acq. Method Cal
Sample Position MDQ P1 Combined 011619.m
Injection Volume P2-C12
Acq. Date-Time 1
Sample Info. 6/24/2019 11:02:16 PM
Data File p1 Cal 6-250ng.d
Sample Operator p1 Cal 6-250ng
Comment



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.123	53666	∞	71.7	∞	66854	22.2881 ng/ml
7-aminoclonazepam	4.239	221426	11421.57	80.8	20706.59	39793	224.0884 ng/ml
a-hydroxylprazolam	5.679	70836	965.09	64.1	571.07	14426	225.3005 ng/ml
alpha-PVP	4.345	1044016	93895.45	51.8	22320.46	195307	219.4530 ng/ml
Alprazolam	5.763	434654	8283.11	100.9	5003.54	53145	207.5686 ng/ml
Amphetamine	3.041	1047598	13474.54	55.8	18371.39	68047	201.1865 ng/ml
Benzoyllecgonine	3.862	26910	769.43	7.6	713.39	4401	214.5710 ng/ml
Buprenorphine	5.767	34191	14095.43	15.9	4188.99	55767	21.2766 ng/ml
Bupropion	4.767	3245307	422577.41	59.1	54670.73	471678	213.2186 ng/ml
Carisoprodol	5.711	358053	147594.80	55.4	∞	76447	223.8302 ng/ml
Citalopram	5.206	620503	258951.43	40.8	1956.47	111943	211.5827 ng/ml
Clonazepam	5.592	44491	881.40	35.0	59459.08	2999	233.7083 ng/ml
Cocaine	4.245	968146	3641280.23	44.3	222615.18	386652	211.1685 ng/ml
Codeine	2.563	116278	5334.66	99.6	2404.76	21791	219.9821 ng/ml
Cyclizaprine	5.615	432853	38274.58	10.2	3840.01	70993	211.7650 ng/ml
Dextromethorphan	5.249	357983	40013.89	78.7	∞	69896	219.9107 ng/ml
Dextroproprian	4.101	371656	44803.41	203.0	61233.06	176442	213.2007 ng/ml
Diazepam	5.949	303546	∞	88.9	29648.76	57870	221.0080 ng/ml

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AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.534	318467	∞	68.5	70348.46	74500	223.8361 ng/ml
Diphenhydramine	5.276	1787831	334159.62	34.0	26509.81	383233	214.2289 ng/ml
Doxylamine	4.514	2634032	233640.61	97.1	178827.37	469609	212.3646 ng/ml
EDDP	5.242	684433	1242.34	42.5	19175.11	145525	209.6108 ng/ml
Fentanyl	5.070	48741	3490.29	76.3	108525.34	100761	21.7484 ng/ml
Fluoxetine	5.701	508864	1016.61	9.6	581.92	79651	207.1455 ng/ml
Hydrocodone	2.997	342279	∞	42.4	360.49	85417	215.9787 ng/ml
Hydromorphone	1.601	273480	∞	77.1	659.78	41778	221.4370 ng/ml
Ketamine	4.027	845913	18168.33	37.2	4113.06	163753	223.4219 ng/ml
Lamotrigine	4.269	82032	12570.88	79.1	9338.26	163753	221.0434 ng/ml
Lorazepam	5.734	48497	287.54	56.5	130.79	2999	235.6962 ng/ml
Meprobamate	4.890	150133	∞	28.0	4499.66	29205	217.6899 ng/ml
Methadone	5.647	929775	8307.36	51.5	19866.63	190353	211.1227 ng/ml
Methamphetamine	3.210	1094945	∞	40.6	4194.35	182575	223.0341 ng/ml
Metoprolol	4.307	256117	43519.11	91.8	∞	400849	225.5200 ng/ml
Mirtazapine	4.596	1154730	222820.30	48.2	74156.07	195307	239.1404 ng/ml
Mitragynine	5.198	201812	∞	38.9	592.79	190353	248.6921 ng/ml
Morphine	1.240	62856	5835.34	23.7	1415.07	2995	216.1308 ng/ml
Norbuprenorphine	4.973	5242	4865.19	103.5	453.36	9655	21.5140 ng/ml
Nordiazepam	5.888	78237	3011.00	56.5	32640.63	9969	222.8894 ng/ml
Norfentanyl	4.069	139137	19667.09	36.1	1192.34	239937	22.4749 ng/ml
Norhydrocodone	3.053	149776	915.96	42.5	1069.58	112773	271.0455 ng/ml
Noroxycodone	2.894	202149	∞	48.5	147.01	31567	218.8130 ng/ml
O-desmethyl-tramadol	3.358	2173859	279415.01	6.4	2752.14	409526	221.8089 ng/ml
Oxazepam	5.737	61092	496.17	65.6	∞	9189	221.4363 ng/ml
Oxycodone	2.813	594737	1030.80	32.5	∞	102234	223.5402 ng/ml
Oxymorphone	1.396	176099	1577.34	48.7	2426.16	27638	225.5540 ng/ml
Phentermine	3.759	342052	8494.17	4.0	1103.33	155780	219.8362 ng/ml
Promethazine	5.532	830704	77688.20	29.4	1506.27	141879	210.3166 ng/ml
Quetiapine	5.528	922673	128888.92	60.8	82380.61	55088	218.2918 ng/ml
Sertraline	5.777	234145	1148.77	89.1	4770.93	38093	229.6045 ng/ml
Temazepam	5.805	258372	868.31	29.7	368.58	47336	221.5875 ng/ml
Tramadol	4.227	1913587	88631.13	3.6	4350.86	400849	223.9911 ng/ml
Trazodone	5.097	740230	1272.90	78.2	798.29	120773	231.4397 ng/ml
Venlafaxine	5.024	1726764	107337.36	38.1	8205.83	338482	215.0449 ng/ml
Zolpidem	4.860	1987174	120023.53	31.2	62081.85	394735	223.5000 ng/ml

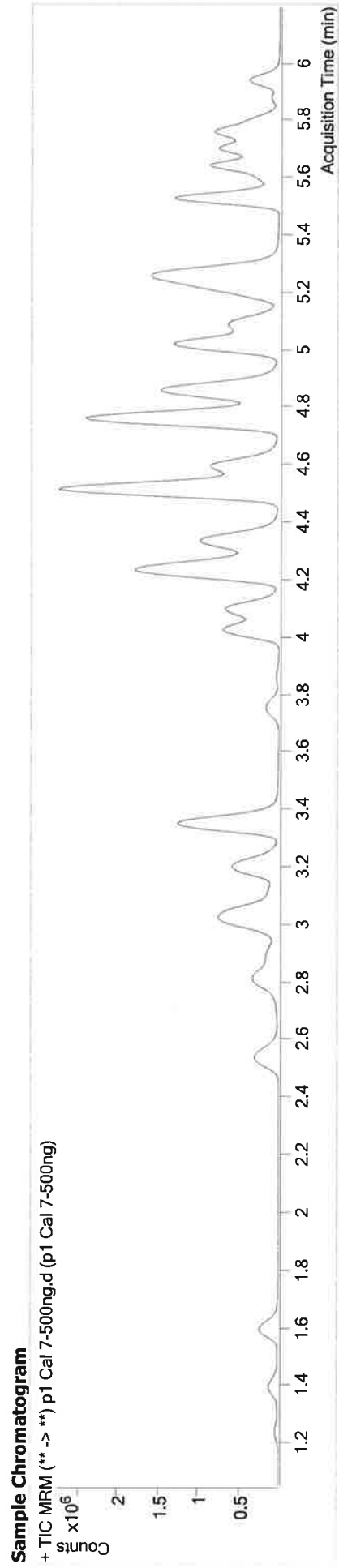
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AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wklist 3502 TS.batch.bin
Calibration Last Update 6/25/2019 11:30:48 AM

Instrument Type	Falco Cal	Data File	p1 Cal 7-500ng.d
Acq. Method	MDQ P1 Combined	Sample	p1 Cal 7-500ng
Sample Position	P2-B12	Operator	
Injection Volume	1	Comment	
Acq. Date-Time	6/24/2019 11:12:45 PM		



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.123	102269	2207.88	71.8	2932.55	49783	56.9518 ng/ml
7-aminoclonazepam	4.239	333632	24684.81	80.5	∞	26091	514.9745 ng/ml
a-hydroxylprazolam	5.679	132249	2110.64	64.9	1013.53	10912	555.6712 ng/ml
alpha-PVP	4.345	1890603	242854.98	51.7	∞	140520	551.4711 ng/ml
Alprazolam	5.763	758799	3871.83	102.0	6708.19	36237	528.2268 ng/ml
Amphetamine	3.041	1601446	16961.10	55.5	35269.17	44297	472.3901 ng/ml
Benzoyllecgonine	3.862	54992	12933.01	7.7	1312.16	3613	522.3482 ng/ml
Buprenorphine	5.767	43504	236.93	17.0	5659.79	29400	51.0426 ng/ml
Bupropion	4.767	5387629	453702.39	59.0	133012.88	317036	524.3386 ng/ml
Carisoprodol	5.711	652244	109343.35	56.7	5412.60	56284	553.1432 ng/ml
Citalopram	5.206	877051	2419.08	41.9	14647.24	63885	521.8662 ng/ml
Clonazepam	5.592	88827	6291.86	33.4	2192.34	2697	517.9735 ng/ml
Cocaine	4.251	1732183	136807.49	44.0	72970.46	276317	526.4041 ng/ml
Codeine	2.563	208582	2321.78	100.0	2493.85	16156	530.8327 ng/ml
Cyclobenzaprine	5.615	564519	551789.35	10.0	277.46	36674	532.4255 ng/ml
Dextromethorphan	5.249	492025	72975.60	79.0	∞	38462	548.5760 ng/ml
Dextrorphan	4.101	645775	71021.20	205.5	64627.17	124204	524.0317 ng/ml
Diazepam	5.949	544153	10909.02	87.3	2109.31	41368	553.6884 ng/ml



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.534	589638	109199.41	67.3	37710.26	57597	536.1138 ng/ml
Diphenhydramine	5.276	2561134	125214.19	34.3	17672.20	223344	524.3157 ng/ml
Doxylamine	4.514	4831577	667662.23	97.4	287802.81	348429	522.7124 ng/ml
EDDP	5.242	1533053	∞	42.6	119514.31	126580	536.6374 ng/ml
Fentanyl	5.070	67093	1087.66	76.4	9313.82	53081	56.7737 ng/ml
Fluoxetine	5.701	623672	1175.91	9.7	767.50	38755	518.8789 ng/ml
Hydrocodone	2.997	665711	∞	41.0	∞	64660	554.1573 ng/ml
Hydromorphone	1.601	513475	∞	76.7	4749.36	31069	558.4907 ng/ml
Ketamine	4.027	1575095	29160.52	37.4	7761.62	124154	548.2886 ng/ml
Lamotrigine	4.269	133377	8721.15	79.5	10569.57	124154	474.6314 ng/ml
Lorazepam	5.734	95144	2515.13	57.6	270.50	2697	518.3838 ng/ml
Meprobamate	4.890	270015	3812.13	28.5	6480.55	20993	544.6185 ng/ml
Methadone	5.647	1337260	3764.32	51.9	279781.64	109861	524.0698 ng/ml
Methamphetamine	3.210	1700345	45772.84	41.6	12068.04	119486	529.6154 ng/ml
Metoprolol	4.307	429656	74888.72	92.1	∞	294883	514.3883 ng/ml
Mirtazapine	4.596	1842153	276598.96	47.7	275760.70	140520	530.1566 ng/ml
Mitragynine	5.198	275438	22635.75	39.1	95694.82	109861	589.6919 ng/ml
Morphine	1.240	112573	5199.83	24.7	549.14	2217	520.6993 ng/ml
Norbuprenorphine	4.973	7365	409.10	101.6	3397.78	5727	51.0457 ng/ml
Nordiazepam	5.888	145784	9600.58	57.5	1230.17	7357	562.1849 ng/ml
Norfentanyl	4.069	256532	2648.66	36.8	29752.77	178958	55.4584 ng/ml
Norhydrocodone	3.053	291382	∞	43.2	1693.72	87947	671.7207 ng/ml
Noroxycodone	2.894	380585	∞	49.3	∞	23398	555.6468 ng/ml
O-desmethyl-tramadol	3.357	4144515	181033.94	6.4	9973.06	312956	552.7879 ng/ml
Oxazepam	5.737	113857	566.85	70.9	207.99	7435	502.4667 ng/ml
Oxycodone	2.813	1144735	8544.49	31.1	423.92	82627	531.9409 ng/ml
Oxymorphone	1.396	320989	5554.64	49.5	4753.61	21942	517.5634 ng/ml
Phentermine	3.766	566979	10180.47	3.9	831.62	106945	530.9081 ng/ml
Promethazine	5.525	1085299	7441.49	29.2	30599.00	73553	527.2236 ng/ml
Quetiapine	5.528	1450993	138149.55	61.2	4422.83	34758	543.2173 ng/ml
Sertraline	5.777	269982	12614.67	89.1	30973.99	18124	556.2059 ng/ml
Temazepam	5.805	492840	1025.92	29.1	1123.33	36717	544.1402 ng/ml
Tramadol	4.227	3395570	∞	3.6	4167.33	294883	540.8249 ng/ml
Trazodone	5.097	1130458	984798.74	79.3	128383.35	71520	595.7998 ng/ml
Venlafaxine	5.024	3113697	231498.25	38.2	∞	247913	527.1042 ng/ml
Zolpidem	4.860	3720035	136186.22	31.1	81620.91	301536	547.2394 ng/ml

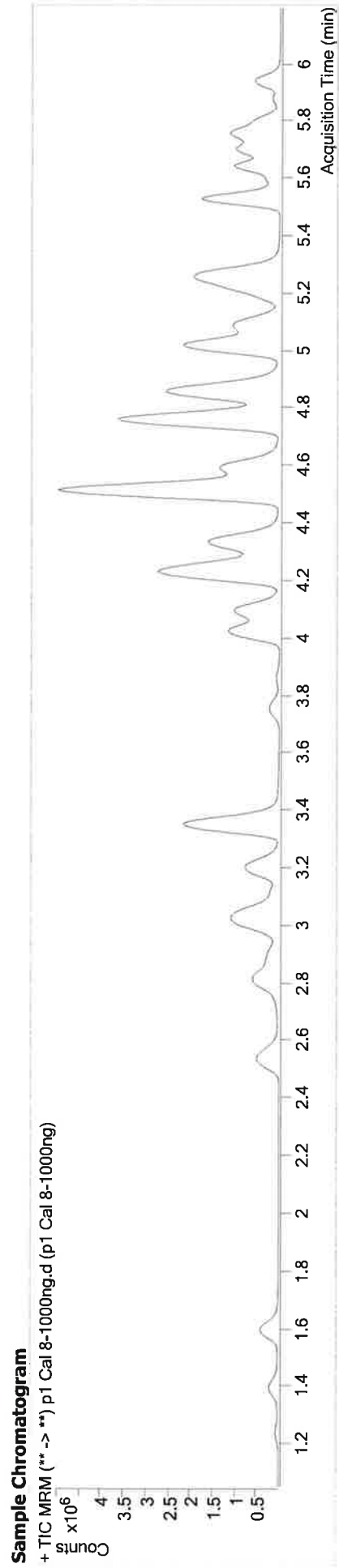
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AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P1 wklist 3502 TS.batch.bin
Calibration Last Update 6/25/2019 11:30:48 AM

Instrument	Falco	Data File	p1 Cal 8-1000ng.d
Type	Cal	Sample	p1 Cal 8-1000ng
Acq. Method	MDQ P1 Combined 011619.m	Operator	
Sample Position	P2-A12	Comment	
Injection Volume	1		
Acq. Date-Time	6/24/2019 11:23:13 PM		
Sample Info.			



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.123	191308	∞	71.5	3863.98	46756	113.3788 ng/ml
7-aminoclonazepam	4.232	440392	13674.47	77.6	17889.85	19326	917.7169 ng/ml
a-hydroxyalprazolam	5.679	257631	1673.83	64.0	1582.77	10907	1082.7439 ng/ml
alpha-PVP	4.345	3261555	430977.36	51.6	87471.93	121783	1097.1580 ng/ml
Alprazolam	5.763	1238829	∞	103.0	1998.74	30243	1031.3501 ng/ml
Amphetamine	3.041	2200275	40562.41	55.4	37219.61	33814	850.1959 ng/ml
Benzoylcegonine	3.862	119234	8110.77	7.7	689.60	3685	1101.5379 ng/ml
Buprenorphine	5.767	38500	1581.43	16.6	12866.13	12664	104.6343 ng/ml
Bupropion	4.767	8258944	∞	59.1	189539.74	247834	1026.7224 ng/ml
Carisoprodol	5.711	1130409	1449.42	55.4	10868.01	49447	1090.7794 ng/ml
Citalopram	5.206	1050724	∞	41.7	35385.69	38707	1030.4450 ng/ml
Clonazepam	5.592	176553	17125.31	35.6	∞	2760	1005.5582 ng/ml
Cocaine	4.251	2925193	123652.13	43.9	212894.16	238652	1027.8096 ng/ml
Codeine	2.563	348274	1141.72	101.3	11210.53	14147	1011.2909 ng/ml
Cyclobenzaprine	5.615	512026	180469.29	10.0	6131.79	17354	1019.2361 ng/ml
Dextromethorphan	5.249	581788	∞	80.1	137755.61	22616	1102.6501 ng/ml
Dextrorphan	4.101	1007829	116831.21	207.8	107341.83	98716	1027.5235 ng/ml
Diazepam	5.949	886237	1617.93	88.5	∞	33932	1099.0225 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.534	1044923	71578.11	67.7	56328.78	55589	984.4195 ng/ml
Diphenhydramine	5.276	3301331	190397.13	34.4	14261.52	146860	1026.3310 ng/ml
Doxylamine	4.514	9170990	377303.55	95.6	305131.20	335530	1028.8019 ng/ml
EDDP	5.242	1900673	143768.08	42.6	2730.06	82239	1022.2332 ng/ml
Fentanyl	5.070	68479	1278.82	77.5	1171.72	27172	113.1641 ng/ml
Fluoxetine	5.701	438394	13360.90	9.6	146.38	13593	1037.9813 ng/ml
Hydrocodone	3.004	1203192	∞	42.3	∞	61800	1047.4811 ng/ml
Hydromorphone	1.601	933559	3864.91	76.7	2558.28	28619	1101.9605 ng/ml
Ketamine	4.027	2839852	133427.69	37.4	4323.35	116664	1051.7506 ng/ml
Lamotrigine	4.269	194506	∞	80.1	8517.81	116664	736.8895 ng/ml
Lorazepam	5.734	186281	2355.37	57.0	693.80	2760	995.2247 ng/ml
Meprobamate	4.890	469381	41875.70	28.4	7877.13	16938	1173.3284 ng/ml
Methadone	5.647	1645080	162329.11	51.9	20184.32	68618	1030.8738 ng/ml
Methamphetamine	3.210	2200982	59502.61	42.7	11870.67	85352	959.9448 ng/ml
Metoprolol	4.307	653555	90056.89	91.6	∞	261762	881.5097 ng/ml
Mirtazapine	4.596	2862011	287177.60	47.8	215048.99	121783	950.3251 ng/ml
Mitragynine	5.198	266546	1400993.71	38.5	189575.45	68618	914.2927 ng/ml
Morphine	1.240	192771	1365.55	23.8	∞	1924	1026.0337 ng/ml
Norbuprenorphine	4.966	8151	2365.45	99.3	7290.71	3136	103.2333 ng/ml
Nordiazepam	5.888	259269	∞	57.9	1701.67	6931	1060.8237 ng/ml
Norfentanyl	4.069	440954	51344.68	36.6	4034.09	149652	113.9241 ng/ml
Norhydrocodone	3.053	521248	6156.52	43.1	∞	73312	1438.0959 ng/ml
Noroxycodone	2.894	650063	911.23	49.9	∞	22333	994.2337 ng/ml
O-desmethyl-tramadol	3.358	7556094	344683.18	6.5	31395.81	288597	1092.5008 ng/ml
Oxazepam	5.737	224912	2573.77	68.7	1055.65	7132	1028.5484 ng/ml
Oxycodone	2.813	2261449	∞	31.2	∞	77277	1123.2595 ng/ml
Oxymorphone	1.396	597293	∞	48.9	1891.56	20349	1038.2417 ng/ml
Phentermine	3.759	841959	8113.87	3.9	670.83	84759	994.8220 ng/ml
Promethazine	5.525	961489	11047.23	29.3	2019.35	33335	1028.8463 ng/ml
Quetiapine	5.528	2490563	283831.49	60.2	7349.10	30035	1078.4775 ng/ml
Sertraline	5.777	166510	851.15	92.2	16884.51	5843	1063.8690 ng/ml
Temazepam	5.805	901608	22408.18	29.7	863.50	32888	1110.7795 ng/ml
Tramadol	4.220	5742410	275925.18	3.6	12664.05	261762	1030.6862 ng/ml
Trazodone	5.097	1951660	∞	78.4	1408321.2	57244	1284.3772 ng/ml
Venlafaxine	5.024	5481942	173457.36	38.1	28229.70	224336	1024.0377 ng/ml
Zolpidem	4.860	6840294	223990.38	30.9	280624.09	290869	1042.8543 ng/ml