

cg

1/24/2018

Worklist: 2145

reviewed 1/25/18

BWylee

<u>LAB_CASE</u>	<u>ITEM</u>	<u>TASK_ID</u>	<u>DESCRIPTION</u>
M2017-2620	1	105843	AM 28 Blood Multi-Drug Quant



Multi-Drug Quantitation in Blood by LC-MS/M

Extraction Date: 01/09/18

Analyst: Celena Shrum

Plate lot#: 0507680

Plate Expiration: ~~5/31/2018~~ 06/05/2018 CS

corrected on 03/15/18

Mobile phase A: 5mM Amm Form + 0.01% FA
0.5M Ammonium Hydroxide
20% Methanol in Water

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

Blank Blood Lot: 361331-2

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

LCMS-QQQ ID: 59740

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: 2609543** in wells of analytical (standards) plate.
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. *Shaker ID: 067105*
- 4. Pipette **250µL 00.5M ammonium hydroxide** in wells of analytical plate.
- 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 6. Transfer **300µL of blood+base** 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: C:\Mass Hunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918
Batch Name: MDQ Panel 1a TS 010918
- 2. Make necessary changes to integration limits
- 3. Integration linear and r^2 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%, S/N for primary and secondary transitions > 10 .
- 5. Did all QCs pass for each analyte? Y / N See comments below
- 6. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS:

Tamara Salazar performed steps 3-16. I witnessed and approved of all work done by Tamara. Tamara also did the data analysis. I went through and checked all of the data to ensure that I agreed with it all.

Additional Comments:

Not evaluated for Panel 1a: 6-MAM

Curve limitations:

Amphetamine: 5-250

Norhydrocodone: 25-100

7-aminoclonazepam: 5-500

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Toxicology AM method 28 panel 1 external prep information

Working Solution 10000 ng/ml in MeOH trazodone, ketamine, morphine, quetiapine

Stock Solution 1mg/ml 100 ul each in 9600 ul MeOH (Fisher Lot # 172516)

Prepared: 12/12/17 Expires: 06/12/18 By:TNS

Drug	Lot	Expiration
Trazodone	FN12151403	1/1/2020
Ketamine	FE01131504	2/1/2020
Morphine	FE08141515	11/1/2020
Quetiapine	FN02021502	2/1/2020

AM 28 control 50 ul working solution lot (WS121217) in 9950ul blood (Hemostat Lot# 361331-2)

Prepared: 12/12/17 Expires: 06/12/18 By: TNS

ISP FORENSICS - Pocatello Instrument # 59740

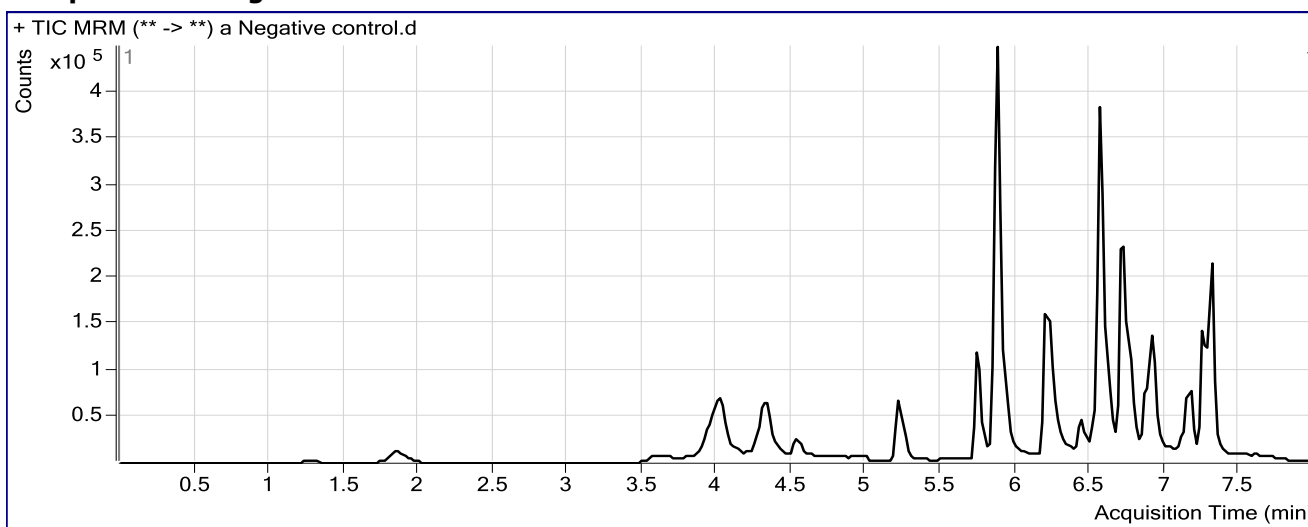
Multi-Drug Confirmatory Analysis Report

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Report Time	1/19/2018 5:34 PM	Reporter Name	ISPUser
Last Calib Update	1/19/2018 5:22 PM	Batch State	Processed

Analysis Info

Acq Time	2018-01-09 23:06	Data File	a Negative control.d
Sample Type	Sample	Sample Name	a Negative control
Dilution	1	Acq Method	MD Quant Panel 1a 12-12-17.m
Position	P1-F2	Sample Info	
Inj Vol	-1	Comment	AM 28

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Amphetamine	Amphetamine-D11	4.083	39596	134895	0.2935	0.9935 <5ng/mL
Promethazine	Promethazine-D3	7.126	5106	57357	0.0890	4.9416 <5ng/mL

ISP FORENSICS - Pocatello Instrument # 59740

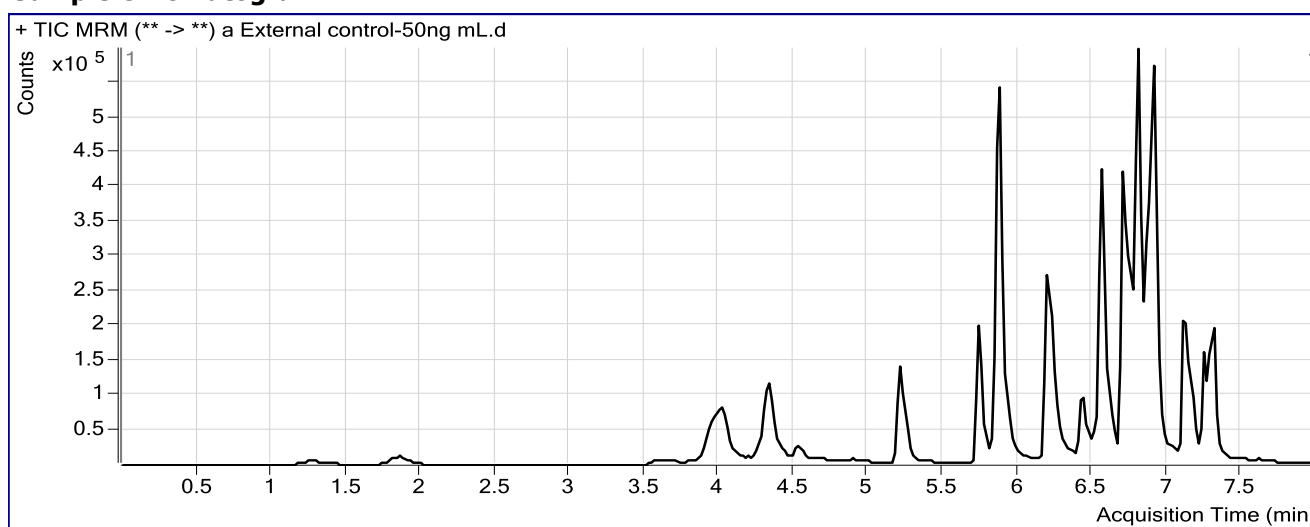
Multi-Drug Confirmatory Analysis Report

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Analysis Time 1/19/2018 5:23 PM **Analyst Name** ISPUser
Report Time 1/19/2018 5:35 PM **Reporter Name** ISPUser
Last Calib Update 1/19/2018 5:22 PM **Batch State** Processed

Analysis Info

Acq Time 2018-01-09 23:37 **Data File** a External control-50ng mL.d
Sample Type Sample **Sample Name** a External control-50ng mL
Dilution 1 **Acq Method** MD Quant Panel 1a 12-12-17.m
Position P1-E2 **Sample Info**
Inj Vol -1 **Comment** AM 28; WS121217 50 ng trazodone, ketamine, morphine, quetiapine

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.288	27269	17787	1.5331	45.3678
Amphetamine	Amphetamine-D11	4.083	40843	287285	0.1422	0.0000
Trazodone	Trazodone-D6	6.794	827424	582574	1.4203	50.9442
Promethazine	Promethazine-D3	7.126	5916	619367	0.0096	2.0518 <5ng/mL

ISP FORENSICS - Pocatello Instrument # 59740

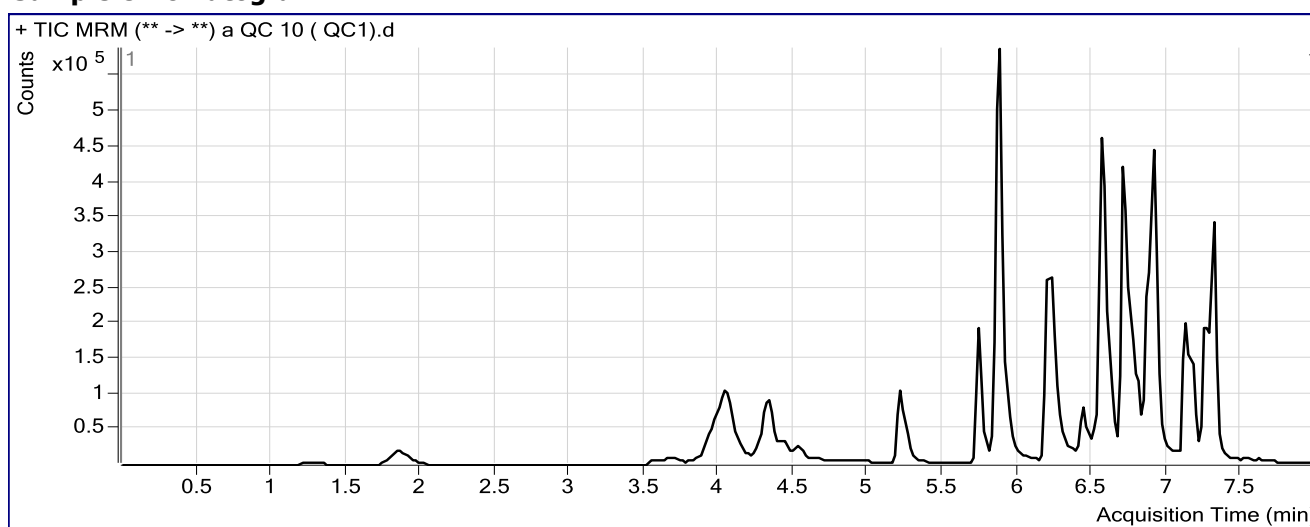
Multi-Drug Confirmatory Analysis Report

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Report Time	1/19/2018 5:35 PM	Reporter Name	ISPUser
Last Calib Update	1/19/2018 5:22 PM	Batch State	Processed

Analysis Info

Acq Time	2018-01-10 00:40	Data File	a QC 10 (QC1).d
Sample Type	QC	Sample Name	a QC 10 (QC1)
Dilution	1	Acq Method	MD Quant Panel 1a 12-12-17.m
Position	P1-A2	Sample Info	
Inj Vol	-1	Comment	AM 28

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.288	6195	20975	0.2953	10.4055
Hydromorphone	Hydromorphone-D6	1.889	28441	97206	0.2926	10.0336
Codeine	Codeine-D6	3.712	11433	53835	0.2124	10.0073
Oxycodone	Oxycodone-D6	4.046	95248	366477	0.2599	9.6094
Amphetamine	Amphetamine-D11	4.083	175439	209852	0.8360	9.6683
Hydrocodone	Hydrocodone-D6	4.331	31335	195104	0.1606	9.3877
Norhydrocodone	Norhydrocodone-D3	4.375	1462	40483	0.0361	19.8324
Methamphetamine	Methamphetamine-D11	4.439	72458	242361	0.2990	9.5876
6-MAM	6-MAM-D6	4.547	1101	46592	0.0236	3.2767 Not evaluated
Phentermine	Phentermine-D5	5.261	42832	401758	0.1066	9.1967
Dextrophan	Dextrophan-D3	5.740	46207	471421	0.0980	9.4126
7-aminoclonazepam	7-Aminoclonazepam-D4	5.851	89334	341685	0.2615	9.6594
Tramadol	Tramadol-13C-D3	5.876	288303	1399700	0.2060	10.2681
Doxylamine	Doxylamine-D5	6.220	221377	922964	0.2399	9.6090
Bupropion	Bupropion-D9	6.448	45697	184803	0.2473	9.4751
Meprobamate	Meprobamate-D7	6.551	28537	106149	0.2688	9.2227
Zolpidem	Zolpidem-D6	6.576	289436	1386068	0.2088	10.4481
Venlafaxine	Venlafaxine-D6	6.701	233627	978305	0.2388	10.6351
Trazodone	Trazodone-D6	6.794	100362	376517	0.2666	10.0170
Citalopram	Citalopram-D6	6.856	89171	416680	0.2140	10.1701

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ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report

Panel 1a QC 10

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Dextromethorphan	Dextromethorphan-D3	6.887	28440	109871	0.2588	9.7258
Diphenhydramine	Diphenhydramine-D3	6.910	137366	771816	0.1780	10.1721
Promethazine	Promethazine-D3	7.126	108412	414002	0.2619	11.2263
Clonazepam	Clonazepam-D4	7.162	101132	94858	1.0661	10.8060
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.240	16047	84567	0.1898	10.1491
Carisoprodol	Carisoprodol-D7	7.272	71515	295834	0.2417	9.9530
Lorazepam	Alprazolam-D5	7.282	29973	474945	0.0631	10.6614
Alprazolam	Alprazolam-D5	7.305	157191	474945	0.3310	9.9146

ISP FORENSICS - Pocatello Instrument # 59740

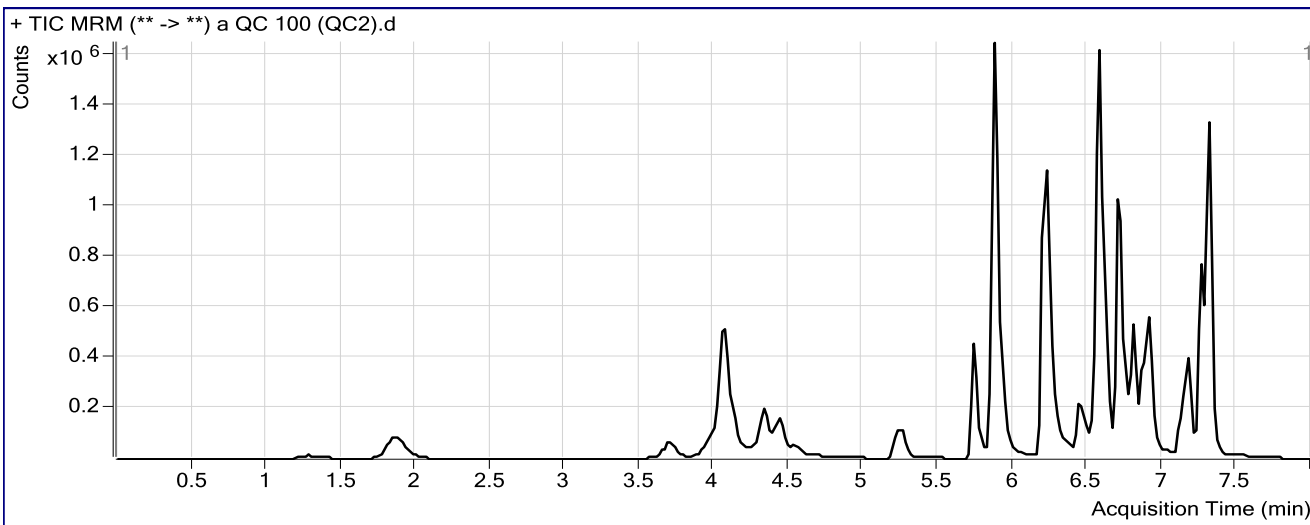
Multi-Drug Confirmatory Analysis Report

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Report Time	1/19/2018 5:35 PM	Reporter Name	ISPUser
Last Calib Update	1/19/2018 5:22 PM	Batch State	Processed

Analysis Info

Acq Time	2018-01-10 02:46	Data File	a QC 100 (QC2).d
Sample Type	QC	Sample Name	a QC 100 (QC2)
Dilution	1	Acq Method	MD Quant Panel 1a 12-12-17.m
Position	P1-B2	Sample Info	
Inj Vol	-1	Comment	AM 28

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.288	66695	21158	3.1523	91.1048
Hydromorphone	Hydromorphone-D6	1.889	311580	98951	3.1489	100.8161
Codeine	Codeine-D6	3.712	119635	53176	2.2498	86.9415
Oxycodone	Oxycodone-D6	4.046	1015701	356560	2.8486	99.0518
Amphetamine	Amphetamine-D11	4.083	991067	151511	6.5412	100.9000
Hydrocodone	Hydrocodone-D6	4.331	321020	192762	1.6654	100.3976
Norhydrocodone	Norhydrocodone-D3	4.375	17712	34236	0.5173	99.5619
Methamphetamine	Methamphetamine-D11	4.439	476051	164745	2.8896	90.5649
6-MAM	6-MAM-D6	4.547	9026	50971	0.1771	8.0770 Not evaluated
Phentermine	Phentermine-D5	5.261	317760	286674	1.1084	103.9172
Dextrophan	Dextrophan-D3	5.740	414674	367583	1.1281	99.9296
7-aminoclonazepam	7-Aminoclonazepam-D4	5.851	839022	305986	2.7420	105.6166
Tramadol	Tramadol-13C-D3	5.876	2799541	1356924	2.0632	100.1510
Doxylamine	Doxylamine-D5	6.220	2066861	825629	2.5034	96.9821
Bupropion	Bupropion-D9	6.468	360194	121431	2.9662	103.3912
Meprobamate	Meprobamate-D7	6.551	259658	93138	2.7879	112.9804
Zolpidem	Zolpidem-D6	6.576	3064054	1452796	2.1091	100.2610
Venlafaxine	Venlafaxine-D6	6.701	1913457	797063	2.4006	95.8843
Trazodone	Trazodone-D6	6.794	707033	240103	2.9447	105.0206
Citalopram	Citalopram-D6	6.856	348340	172200	2.0229	88.6299

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ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report

Panel 1a QC 100

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Dextromethorphan	Dextromethorphan-D3	6.907	102481	37571	2.7277	100.9202
Diphenhydramine	Diphenhydramine-D3	6.910	595434	335736	1.7735	96.7984
Promethazine	Promethazine-D3	7.126	256515	97986	2.6179	96.8956
Clonazepam	Clonazepam-D4	7.162	754981	73583	10.2603	107.4614
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.240	160890	72595	2.2163	91.2554
Carisoprodol	Carisoprodol-D7	7.272	640920	265691	2.4123	92.8818
Lorazepam	Alprazolam-D5	7.282	229206	438350	0.5229	100.9176
Alprazolam	Alprazolam-D5	7.305	1516033	438350	3.4585	99.2036

ISP FORENSICS - Pocatello Instrument # 59740

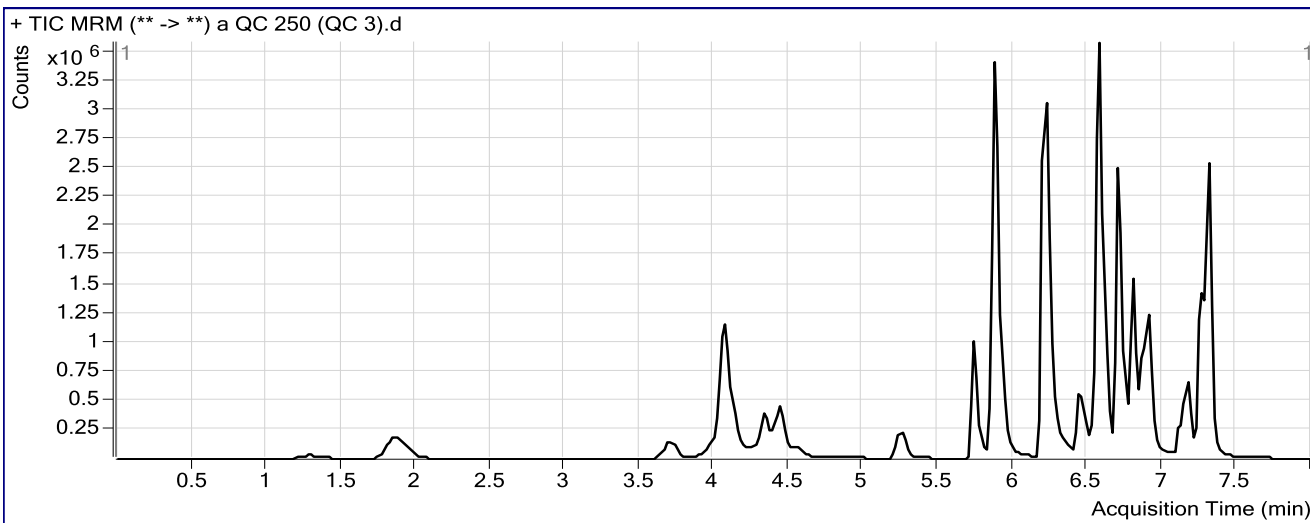
Multi-Drug Confirmatory Analysis Report

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 1a TS 010918.l		
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Report Time	1/19/2018 5:36 PM	Reporter Name	ISPUser
Last Calib Update	1/19/2018 5:22 PM	Batch State	Processed

Analysis Info

Acq Time	2018-01-10 06:11	Data File	a QC 250 (QC 3).d
Sample Type	QC	Sample Name	a QC 250 (QC 3)
Dilution	1	Acq Method	MD Quant Panel 1a 12-12-17.m
Position	P1-C2	Sample Info	
Inj Vol	-1	Comment	AM 28

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.308	164850	19946	8.2650	235.5198
Hydromorphone	Hydromorphone-D6	1.889	778042	96696	8.0462	256.4729
Codeine	Codeine-D6	3.712	277889	47739	5.8210	221.7877
Oxycodone	Oxycodone-D6	4.046	2398691	338201	7.0925	245.6823
Amphetamine	Amphetamine-D11	4.083	2252120	147265	15.2929	240.8480
Hydrocodone	Hydrocodone-D6	4.331	791520	187847	4.2136	254.5193
Norhydrocodone	Norhydrocodone-D3	4.375	46738	31149	1.5004	262.4368
Methamphetamine	Methamphetamine-D11	4.439	1355083	188885	7.1741	224.4865
6-MAM	6-MAM-D6	4.547	26033	51320	0.5073	18.4054 - Not evaluated
Phentermine	Phentermine-D5	5.261	734988	283105	2.5962	244.5786
Dextroprphan	Dextroprphan-D3	5.740	1097940	377907	2.9053	256.0971
7-aminoclonazepam	7-Aminoclonazepam-D4	5.851	1914008	305268	6.2699	242.0884
Tramadol	Tramadol-13C-D3	5.876	7226882	1415603	5.1052	247.3770
Doxylamine	Doxylamine-D5	6.220	5739023	899320	6.3815	246.6803
Bupropion	Bupropion-D9	6.448	916797	123932	7.3976	256.4553
Meprobamate	Meprobamate-D7	6.551	583190	92648	6.2947	257.4246
Zolpidem	Zolpidem-D6	6.576	7584074	1477993	5.1313	243.1039
Venlafaxine	Venlafaxine-D6	6.701	5187881	850211	6.1019	241.8384
Trazodone	Trazodone-D6	6.794	2116271	287778	7.3538	261.4280
Citalopram	Citalopram-D6	6.856	1023115	189332	5.4038	235.2782

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ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report

Panel 1a QC 250

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Dextromethorphan	Dextromethorphan-D3	6.887	255169	40576	6.2887	232.4586
Diphenhydramine	Diphenhydramine-D3	6.910	1692151	369608	4.5782	249.0736
Promethazine	Promethazine-D3	7.126	557185	80034	6.9619	254.8519
Clonazepam	Clonazepam-D4	7.162	1375258	50983	26.9748	283.1749
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.240	330217	63653	5.1878	210.1835
Carisoprodol	Carisoprodol-D7	7.272	1321195	249783	5.2894	202.8059
Lorazepam	Alprazolam-D5	7.282	410625	372686	1.1018	214.5617
Alprazolam	Alprazolam-D5	7.305	3260204	372686	8.7479	250.2114

ISP FORENSICS - Pocatello Instrument # 59740

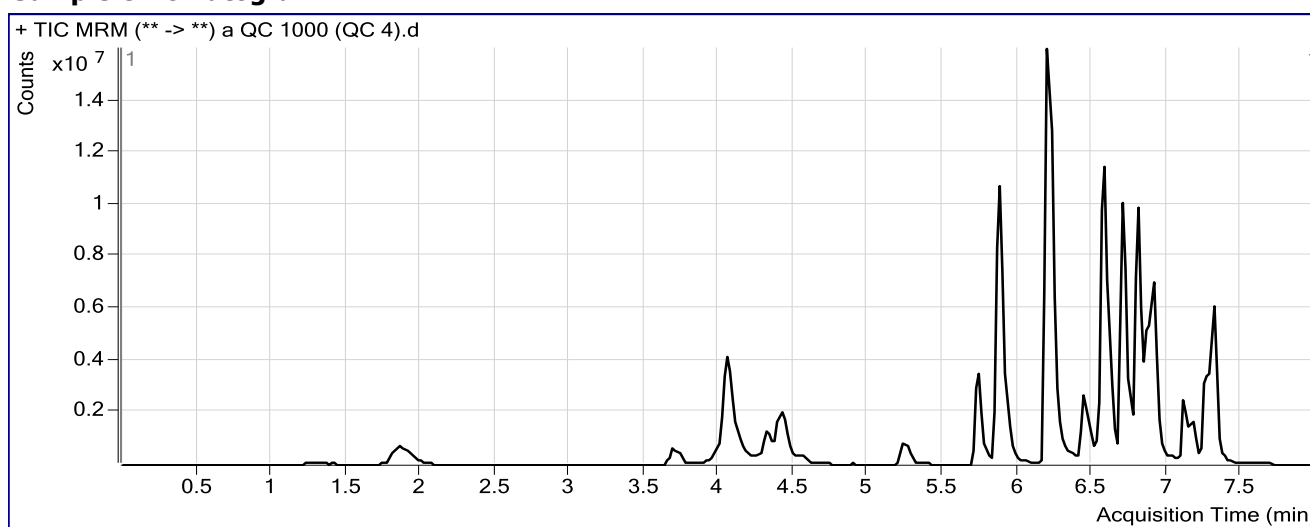
Multi-Drug Confirmatory Analysis Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 1a TS 010918.l
Analysis Time 1/19/2018 5:23 PM **Analyst Name** ISPUser
Report Time 1/19/2018 5:36 PM **Reporter Name** ISPUser
Last Calib Update 1/19/2018 5:22 PM **Batch State** Processed

Analysis Info

Acq Time 2018-01-10 08:32 **Data File** a QC 1000 (QC 4).d
Sample Type QC **Sample Name** a QC 1000 (QC 4)
Dilution 1 **Acq Method** MD Quant Panel 1a 12-12-17.m
Position P1-D2 **Sample Info**
Inj Vol -1 **Comment** AM 28

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.288	620984	16236	38.2476	1082.4231
Hydromorphone	Hydromorphone-D6	1.869	2950023	88396	33.3728	1061.4418
Codeine	Codeine-D6	3.692	903329	38676	23.3562	883.9193
Oxycodone	Oxycodone-D6	4.046	9367975	324637	28.8568	997.6577
Amphetamine	Amphetamine-D11	4.063	7761113	159216	48.7457	775.7898
Hydrocodone	Hydrocodone-D6	4.311	3021298	188158	16.0572	970.8335
Norhydrocodone	Norhydrocodone-D3	4.355	164623	27270	6.0367	1013.9817
Methamphetamine	Methamphetamine-D11	4.419	6611855	206123	32.0773	1002.8929
6-MAM	6-MAM-D6	4.547	132953	46811	2.8402	91.3833
Phentermine	Phentermine-D5	5.241	3069524	340646	9.0109	851.0774
Dextroprphan	Dextroprphan-D3	5.740	4561129	395336	11.5374	1014.6157
7-aminoclonazepam	7-Aminoclonazepam-D4	5.851	5116378	238510	21.4515	829.3641
Tramadol	Tramadol-13C-D3	5.876	29972100	1496665	20.0259	969.5059
Doxylamine	Doxylamine-D5	6.200	28085692	1051733	26.7042	1031.1469
Bupropion	Bupropion-D9	6.448	4021379	161581	24.8877	860.5863
Meprobamate	Meprobamate-D7	6.551	1651450	75298	21.9322	901.5246
Zolpidem	Zolpidem-D6	6.576	27013496	1344735	20.0883	950.0262
Venlafaxine	Venlafaxine-D6	6.701	24819922	996576	24.9052	983.3255
Trazodone	Trazodone-D6	6.794	13825710	504916	27.3822	971.9062
Citalopram	Citalopram-D6	6.856	6361459	285834	22.2558	966.2309

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ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report

Panel 1a QC 1000

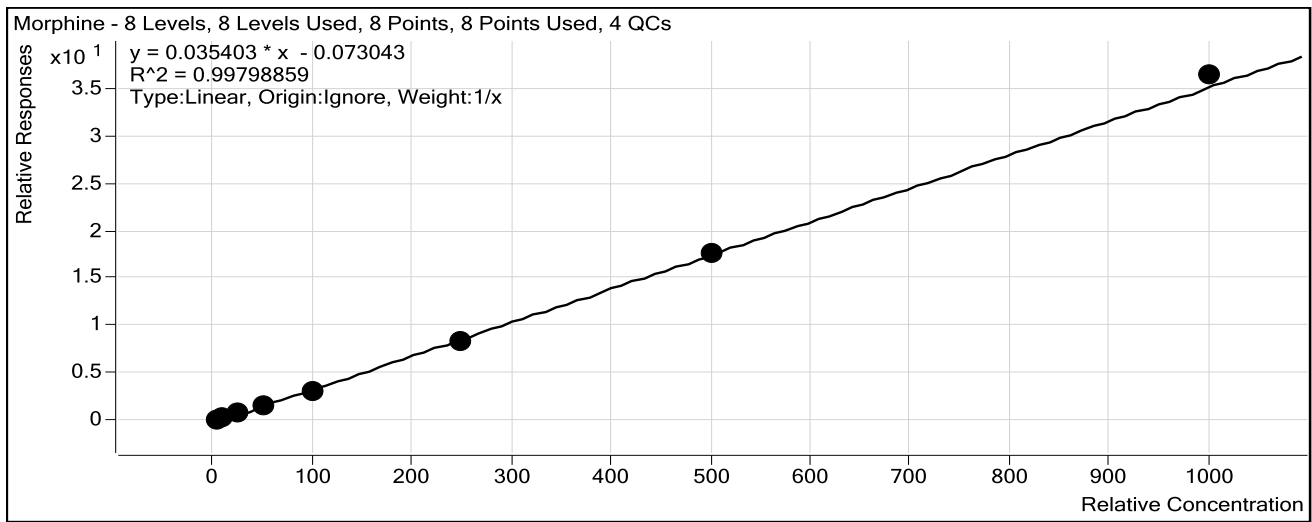
Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Dextromethorphan	Dextromethorphan-D3	6.887	1717084	73705	23.2966	860.6963
Diphenhydramine	Diphenhydramine-D3	6.910	9940813	581822	17.0857	928.1363
Promethazine	Promethazine-D3	7.105	5406663	197276	27.4066	998.2603
Clonazepam	Clonazepam-D4	7.162	2833411	28354	99.9294	1050.1227
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.240	912497	40200	22.6987	911.0188
Carisoprodol	Carisoprodol-D7	7.272	3261308	150597	21.6558	828.1114
Lorazepam	Alprazolam-D5	7.282	1173651	241101	4.8679	953.8626
Alprazolam	Alprazolam-D5	7.305	8762688	241101	36.3445	1038.0779

ISP Forensics Calibration Curve Report

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Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 1a TS 010918.batch.bin
Last Calib Update 1/22/2018 9:16 AM **Analyst Name** ISP TOX

Target Compound *Morphine*
Internal Standard *Morphine-D6*



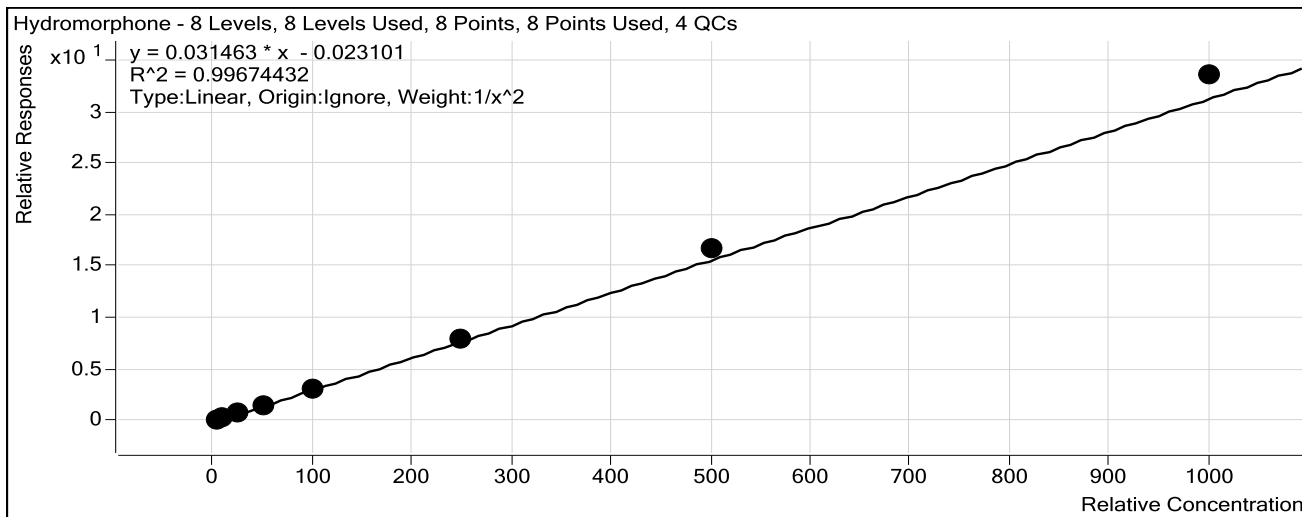
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	6.1	121.8
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.7	106.7
a QC 10 (QC1)	2	<input checked="" type="checkbox"/>	10	10.4	104.1
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	23.7	94.6
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	44.6	89.2
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	90.8	90.8
a QC 100 (QC2)	5	<input checked="" type="checkbox"/>	100	91.1	91.1
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	234.8	93.9
a QC 250 (QC 3)	6	<input checked="" type="checkbox"/>	250	235.5	94.2
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	500.0	100.0
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1029.3	102.9
a QC 1000 (QC 4)	8	<input checked="" type="checkbox"/>	1000	1082.4	108.2

ISP Forensics Calibration Curve Report

CS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 1a TS 010918.batch.bin
Last Calib Update 1/22/2018 9:16 AM **Analyst Name** ISP TOX

Target Compound Hydromorphone
Internal Standard Hydromorphone-D6



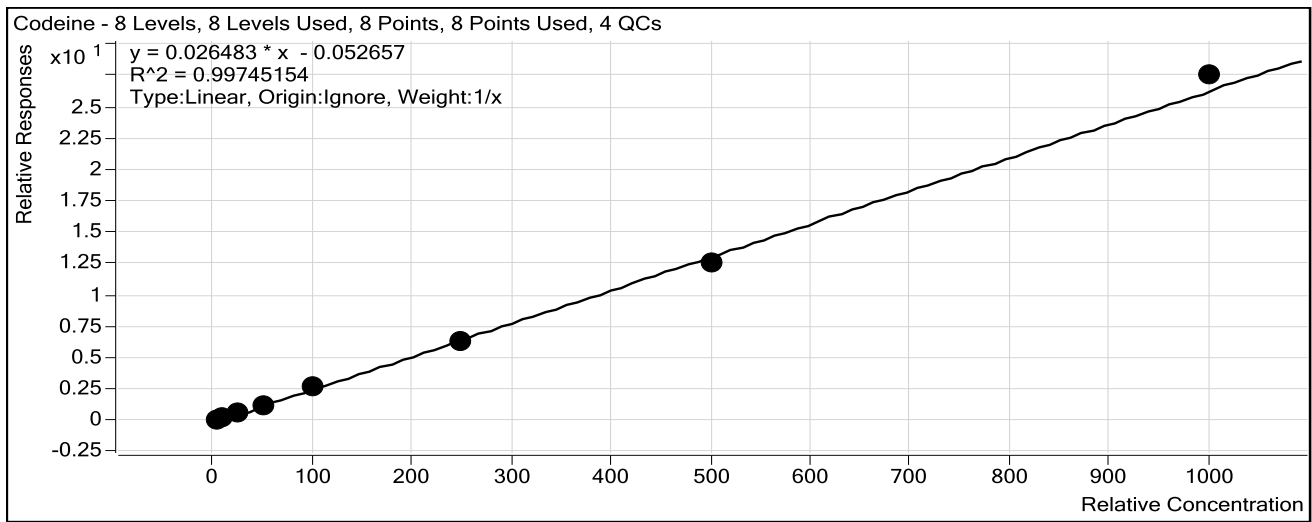
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.2	103.4
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.6	96.3
a QC 10 (QC1)	2	<input checked="" type="checkbox"/>	10	10.0	100.3
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	23.9	95.6
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	46.7	93.4
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	98.4	98.4
a QC 100 (QC2)	5	<input checked="" type="checkbox"/>	100	100.8	100.8
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	250.2	100.1
a QC 250 (QC 3)	6	<input checked="" type="checkbox"/>	250	256.5	102.6
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	531.4	106.3
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1065.3	106.5
a QC 1000 (QC 4)	8	<input checked="" type="checkbox"/>	1000	1061.4	106.1

ISP Forensics Calibration Curve Report

CS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 1a TS 010918.batch.bin
Last Calib Update 1/22/2018 9:16 AM **Analyst Name** ISP TOX

Target Compound Codeine
Internal Standard Codeine-D6



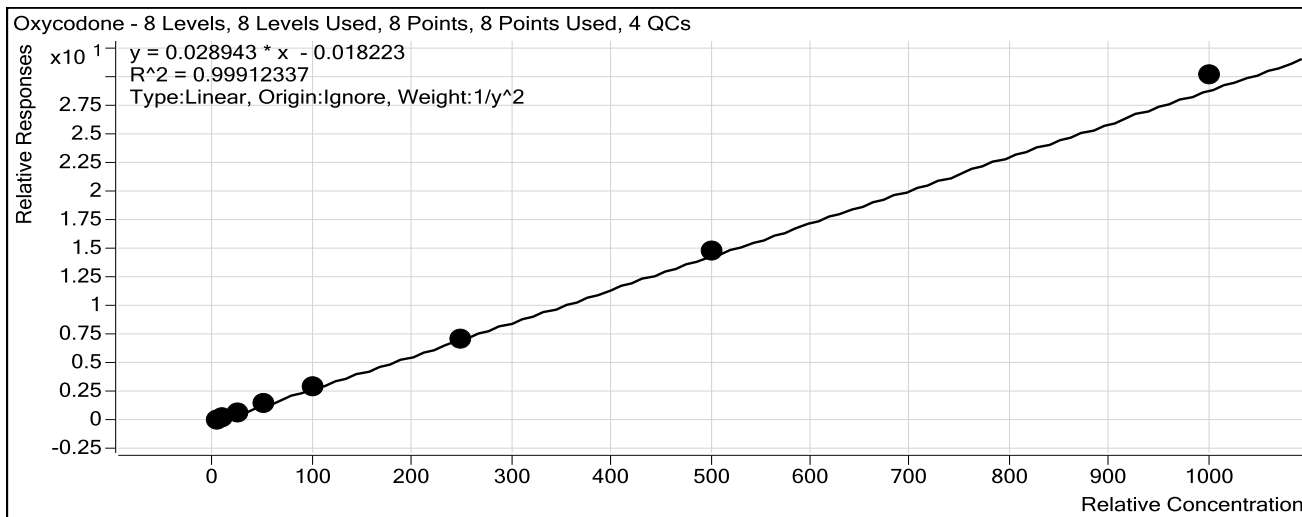
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.9	118.4
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.7	107.1
a QC 10 (QC1)	2	<input checked="" type="checkbox"/>	10	10.0	100.1
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	22.7	91.0
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	43.6	87.2
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	100.8	100.8
a QC 100 (QC2)	5	<input checked="" type="checkbox"/>	100	86.9	86.9
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	241.5	96.6
a QC 250 (QC 3)	6	<input checked="" type="checkbox"/>	250	221.8	88.7
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	474.1	94.8
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1040.6	104.1
a QC 1000 (QC 4)	8	<input checked="" type="checkbox"/>	1000	883.9	88.4

ISP Forensics Calibration Curve Report

CS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 1a TS 010918.batch.bin
Last Calib Update 1/22/2018 9:16 AM **Analyst Name** ISP TOX

Target Compound Oxycodone
Internal Standard Oxycodone-D6



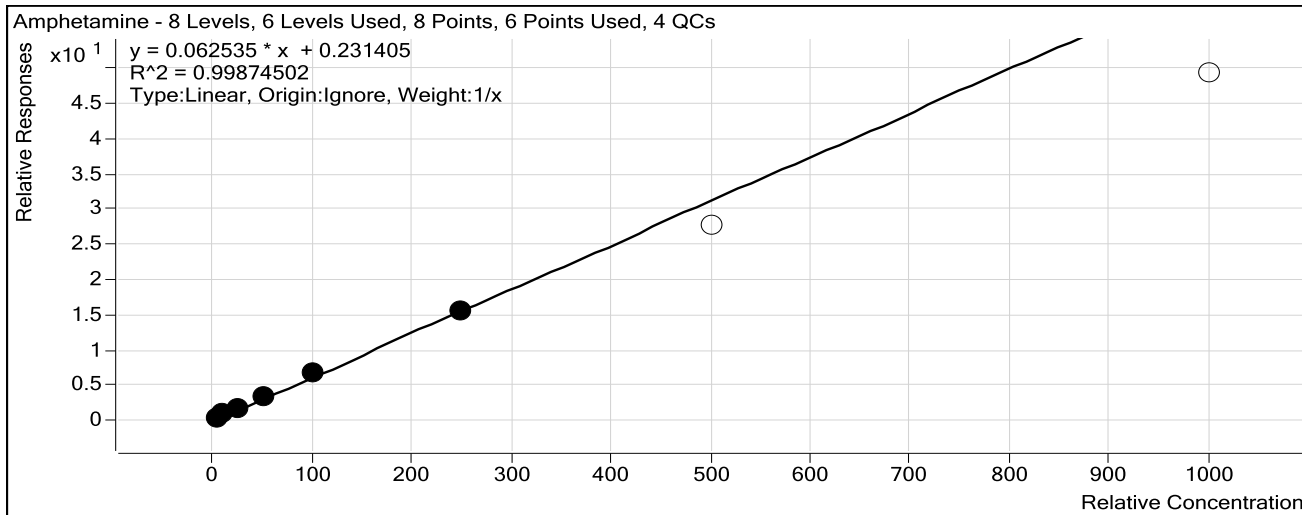
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.1	101.9
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.7	96.8
a QC 10 (QC1)	2	<input checked="" type="checkbox"/>	10	9.6	96.1
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	24.7	99.0
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	48.8	97.7
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	99.6	99.6
a QC 100 (QC2)	5	<input checked="" type="checkbox"/>	100	99.1	99.1
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	248.0	99.2
a QC 250 (QC 3)	6	<input checked="" type="checkbox"/>	250	245.7	98.3
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	514.3	102.9
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1038.7	103.9
a QC 1000 (QC 4)	8	<input checked="" type="checkbox"/>	1000	997.7	99.8

ISP Forensics Calibration Curve Report

CS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 1a TS 010918.batch.bin
Last Calib Update 1/22/2018 9:16 AM **Analyst Name** ISP TOX

Target Compound Amphetamine
Internal Standard Amphetamine-D11



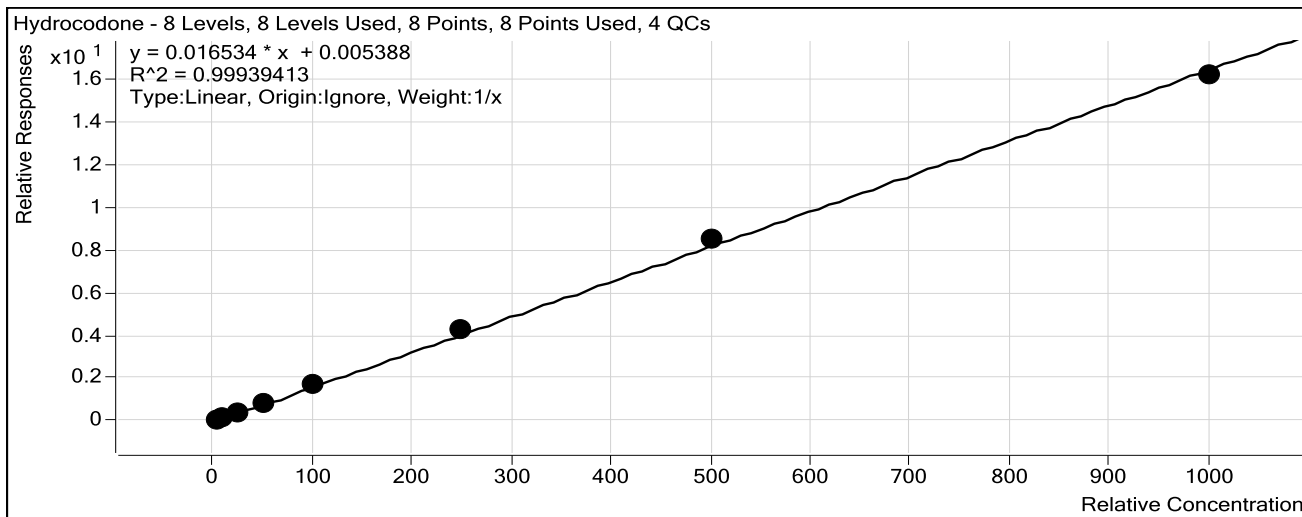
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	4.4	87.1
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.3	102.9
a QC 10 (QC1)	2	<input checked="" type="checkbox"/>	10	9.7	96.7
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	26.4	105.7
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	52.1	104.2
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	102.3	102.3
a QC 100 (QC2)	5	<input checked="" type="checkbox"/>	100	100.9	100.9
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	244.5	97.8
a QC 250 (QC 3)	6	<input checked="" type="checkbox"/>	250	240.8	96.3
a cal 7-500ng	7	<input type="checkbox"/>	500	442.6	88.5
a cal 8-1000ng	8	<input type="checkbox"/>	1000	784.0	78.4
Outside curve range a QC 1000 (QC4)	8	<input checked="" type="checkbox"/>	1000	775.8	77.6

ISP Forensics Calibration Curve Report

CS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 1a TS 010918.batch.bin
Last Calib Update 1/22/2018 9:16 AM **Analyst Name** ISP TOX

Target Compound Hydrocodone
Internal Standard Hydrocodone-D6

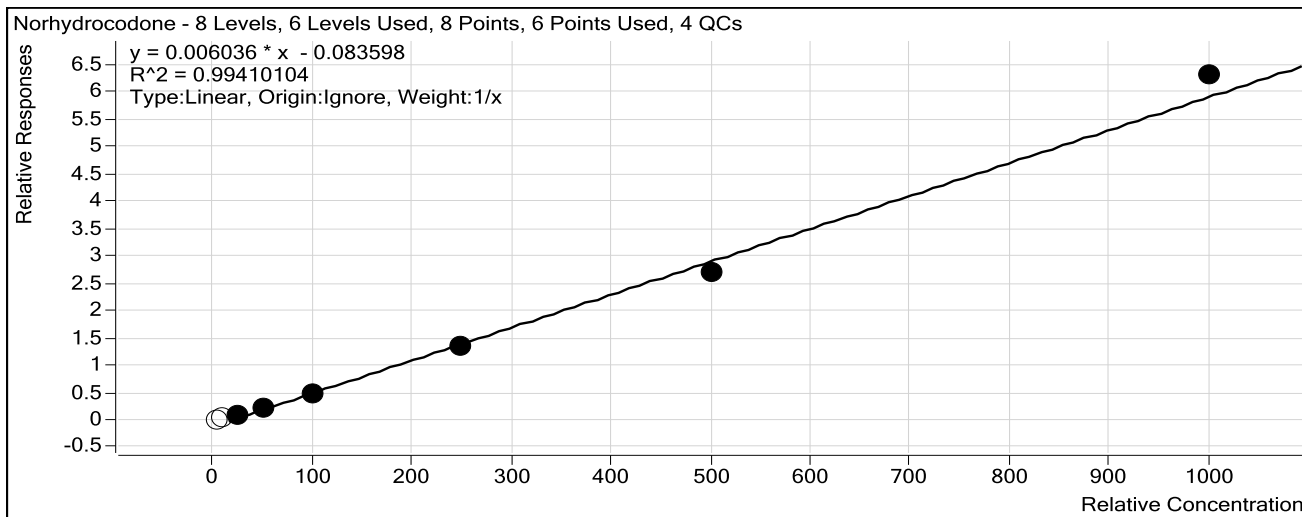


Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	4.9	98.8
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.3	93.4
a QC 10 (QC1)	2	<input checked="" type="checkbox"/>	10	9.4	93.9
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	25.4	101.7
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	50.4	100.9
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	102.4	102.4
a QC 100 (QC2)	5	<input checked="" type="checkbox"/>	100	100.4	100.4
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	256.2	102.5
a QC 250 (QC 3)	6	<input checked="" type="checkbox"/>	250	254.5	101.8
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	513.0	102.6
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	978.3	97.8
a QC 1000 (QC 4)	8	<input checked="" type="checkbox"/>	1000	970.8	97.1

ISP Forensics Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 1a TS 010918.batch.bin
Last Calib Update 1/22/2018 9:16 AM **Analyst Name** ISP TOX

Target Compound Norhydrocodone
Internal Standard Norhydrocodone-D3



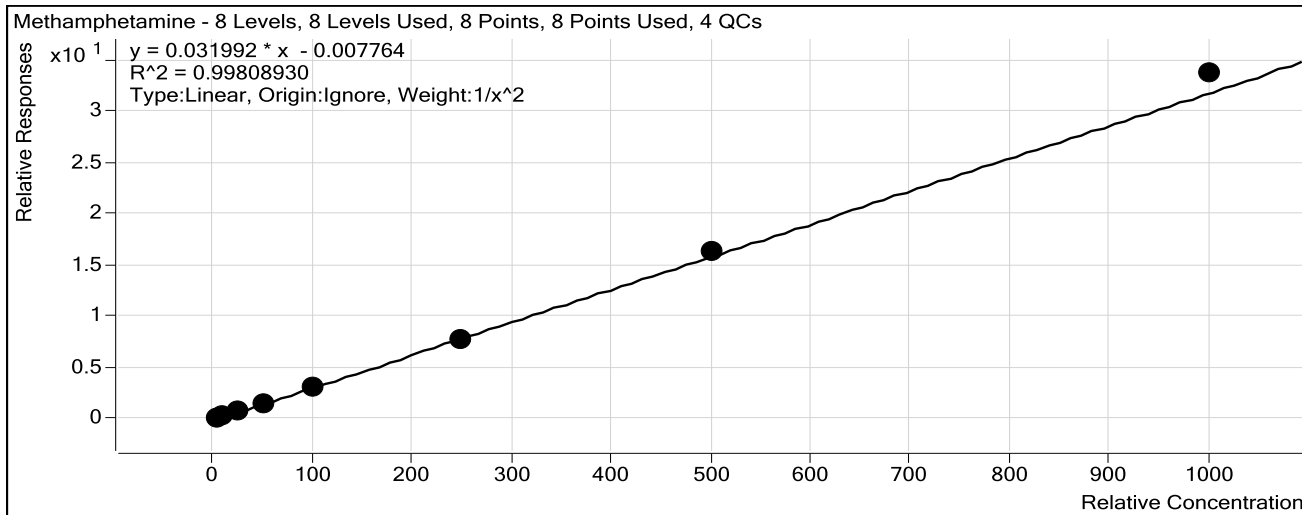
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input type="checkbox"/>	5	16.7	334.3
a cal 2-10ng	2	<input type="checkbox"/>	10	20.1	201.1
a QC 10 (QC1)	2	<input checked="" type="checkbox"/>	10	19.8	198.3 ----- Outside curve range
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	29.6	118.5
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	49.1	98.2
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	90.9	90.9
a QC 100 (QC2)	5	<input checked="" type="checkbox"/>	100	99.6	99.6
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	235.1	94.0
a QC 250 (QC 3)	6	<input checked="" type="checkbox"/>	250	262.4	105.0
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	462.8	92.6
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1057.4	105.7
a QC 1000 (QC 4)	8	<input checked="" type="checkbox"/>	1000	1014.0	101.4

ISP Forensics Calibration Curve Report

CS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 1a TS 010918.batch.bin
Last Calib Update 1/22/2018 9:16 AM **Analyst Name** ISP TOX

Target Compound *Methamphetamine*
Internal Standard *Methamphetamine-D11*



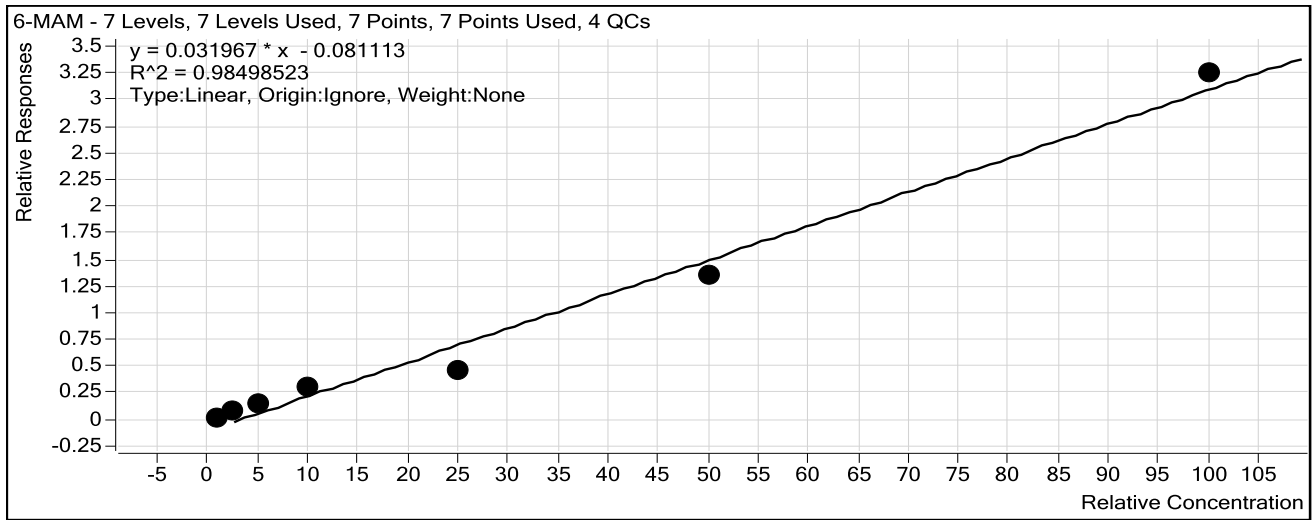
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	4.9	98.3
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.5	105.1
a QC 10 (QC1)	2	<input checked="" type="checkbox"/>	10	9.6	95.9
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	24.6	98.5
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	48.3	96.5
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	95.6	95.6
a QC 100 (QC2)	5	<input checked="" type="checkbox"/>	100	90.6	90.6
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	245.1	98.1
a QC 250 (QC 3)	6	<input checked="" type="checkbox"/>	250	224.5	89.8
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	513.5	102.7
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1052.5	105.3
a QC 1000 (QC 4)	8	<input checked="" type="checkbox"/>	1000	1002.9	100.3

ISP Forensics Calibration Curve Report

CS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 1a TS 010918.batch.bin
Last Calib Update 1/22/2018 9:16 AM **Analyst Name** ISP TOX

Target Compound 6-MAM **Not evaluated.**
Internal Standard 6-MAM-D6



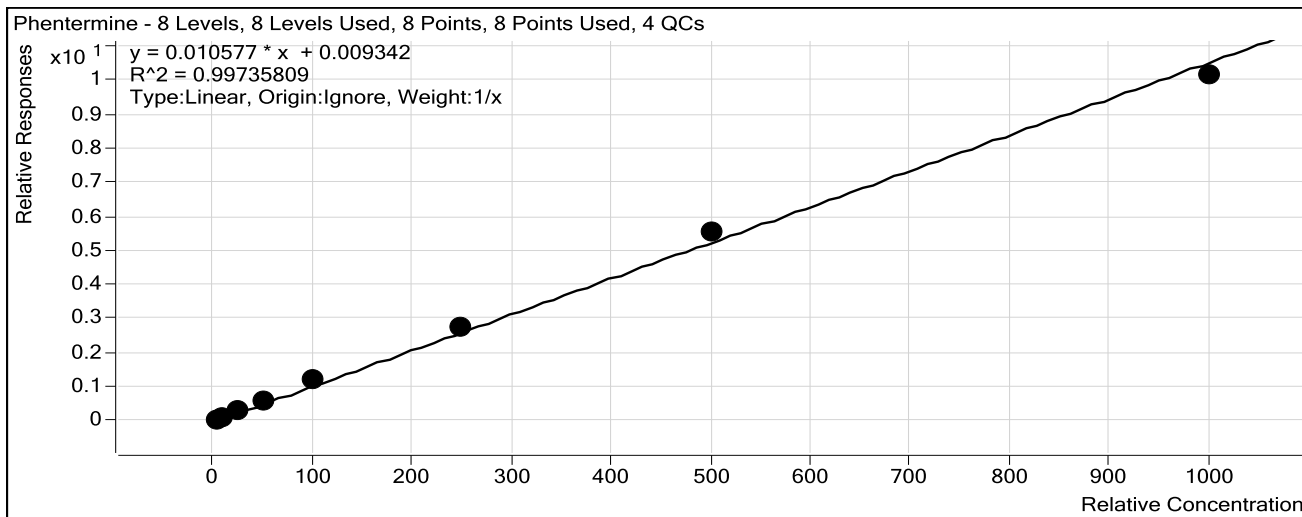
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input type="checkbox"/>	0.5	0.0	0.0
a cal 2-10ng	2	<input checked="" type="checkbox"/>	1	3.3	328.3
a QC 10 (QC1)	2	<input checked="" type="checkbox"/>	1	3.3	327.7
a cal 3-25ng	3	<input checked="" type="checkbox"/>	2.5	4.9	197.2
a cal 4-50ng	4	<input checked="" type="checkbox"/>	5	7.2	143.1
a cal 5-100ng	5	<input checked="" type="checkbox"/>	10	11.8	118.1
a QC 100 (QC2)	5	<input checked="" type="checkbox"/>	10	8.1	80.8
a cal 6-250ng	6	<input checked="" type="checkbox"/>	25	17.3	69.3
a QC 250 (QC 3)	6	<input checked="" type="checkbox"/>	25	18.4	73.6
a cal 7-500ng	7	<input checked="" type="checkbox"/>	50	44.9	89.8
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	100	104.1	104.1
a QC 1000 (QC 4)	8	<input checked="" type="checkbox"/>	100	91.4	91.4

ISP Forensics Calibration Curve Report

CS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 1a TS 010918.batch.bin
Last Calib Update 1/22/2018 9:16 AM **Analyst Name** ISP TOX

Target Compound Phentermine
Internal Standard Phentermine-D5

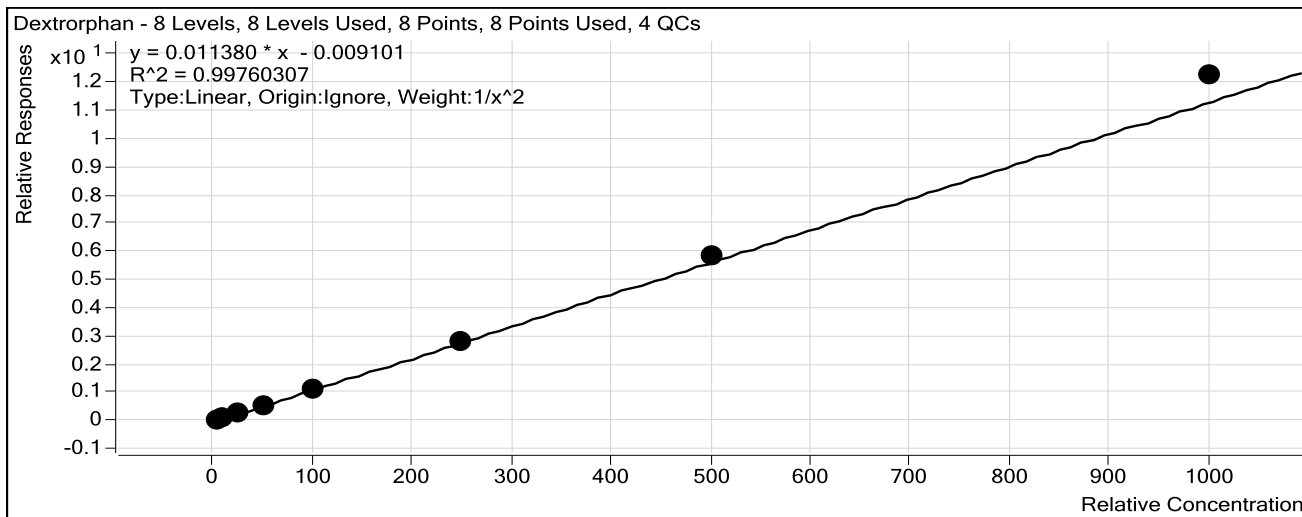


Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	4.2	83.4
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.3	93.4
a QC 10 (QC1)	2	<input checked="" type="checkbox"/>	10	9.2	92.0
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	26.1	104.4
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	51.8	103.6
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	112.4	112.4
a QC 100 (QC2)	5	<input checked="" type="checkbox"/>	100	103.9	103.9
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	256.9	102.8
a QC 250 (QC 3)	6	<input checked="" type="checkbox"/>	250	244.6	97.8
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	521.3	104.3
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	958.0	95.8
a QC 1000 (QC 4)	8	<input checked="" type="checkbox"/>	1000	851.1	85.1

ISP Forensics Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 1a TS 010918.batch.bin
Last Calib Update 1/22/2018 9:16 AM **Analyst Name** ISP TOX

Target Compound *Dextrorphan*
Internal Standard *Dextrorphan-D3*



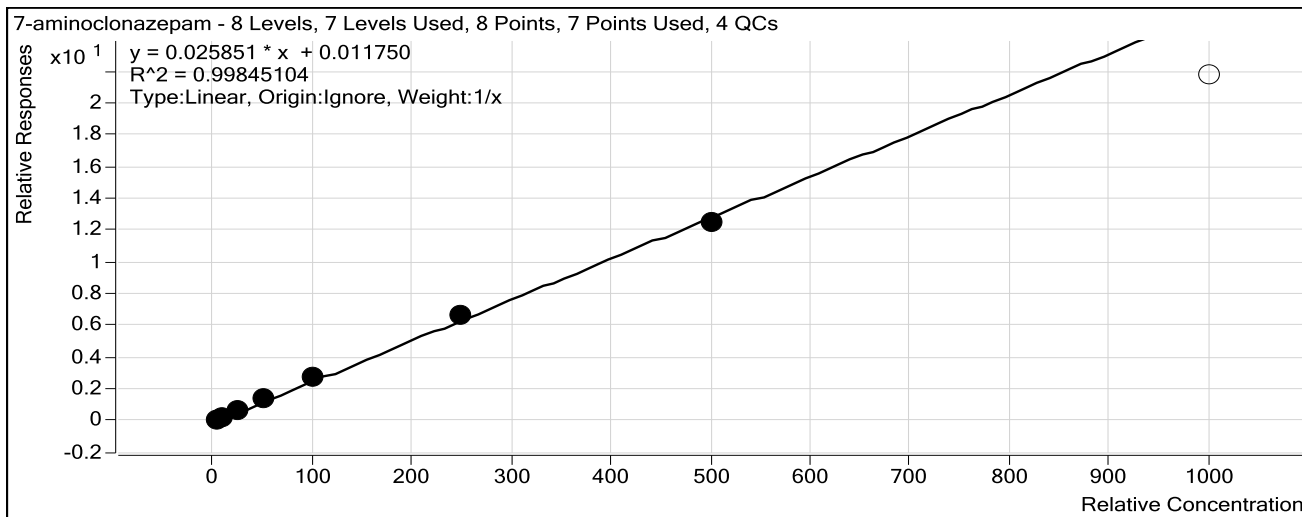
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.1	102.9
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.5	95.5
a QC 10 (QC1)	2	<input checked="" type="checkbox"/>	10	9.4	94.1
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	24.7	98.9
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	48.7	97.4
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	96.4	96.4
a QC 100 (QC2)	5	<input checked="" type="checkbox"/>	100	99.9	99.9
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	244.3	97.7
a QC 250 (QC 3)	6	<input checked="" type="checkbox"/>	250	256.1	102.4
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	517.8	103.6
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1076.8	107.7
a QC 1000 (QC 4)	8	<input checked="" type="checkbox"/>	1000	1014.6	101.5

ISP Forensics Calibration Curve Report

CS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 1a TS 010918.batch.bin
Last Calib Update 1/22/2018 9:16 AM **Analyst Name** ISP TOX

Target Compound 7-aminoclonazepam
Internal Standard 7-Aminoclonazepam-D4



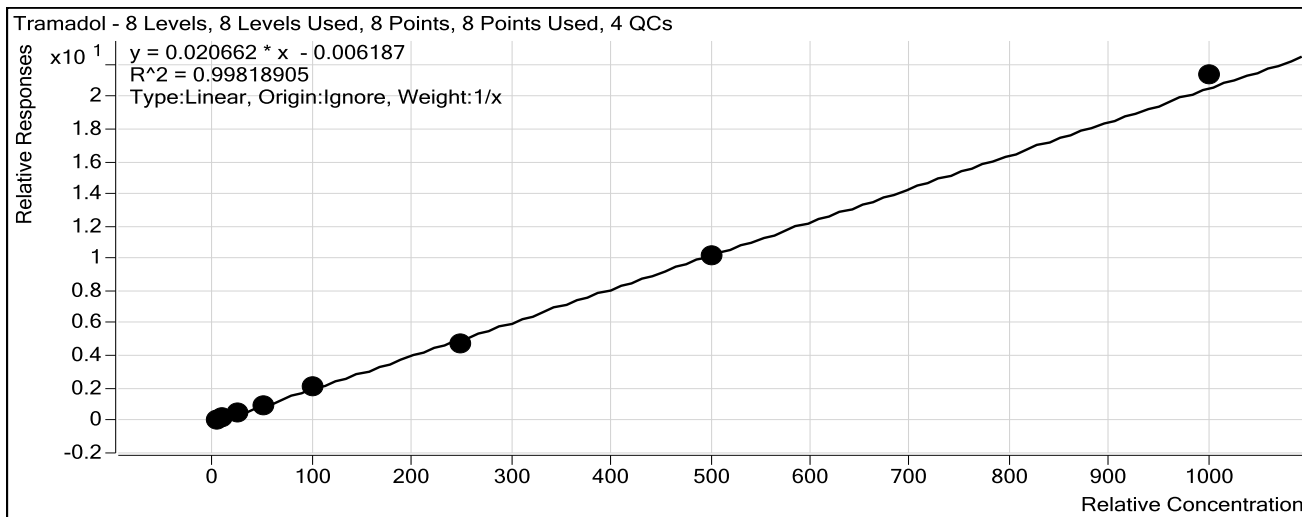
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy	
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	4.5	90.2	
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.5	95.4	
a QC 10 (QC1)	2	<input checked="" type="checkbox"/>	10	9.7	96.6	
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	25.8	103.1	
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	53.6	107.3	
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	103.7	103.7	
a QC 100 (QC2)	5	<input checked="" type="checkbox"/>	100	105.6	105.6	
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	258.4	103.4	
a QC 250 (QC 3)	6	<input checked="" type="checkbox"/>	250	242.1	96.8	
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	484.5	96.9	
a cal 8-1000ng	8	<input type="checkbox"/>	1000	839.7	84.0	
a QC 1000 (QC 4)	8	<input checked="" type="checkbox"/>	1000	829.4	82.9	----- Outside curve range

ISP Forensics Calibration Curve Report

CS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 1a TS 010918.batch.bin
Last Calib Update 1/22/2018 9:16 AM **Analyst Name** ISP TOX

Target Compound *Tramadol*
Internal Standard *Tramadol-13C-D3*

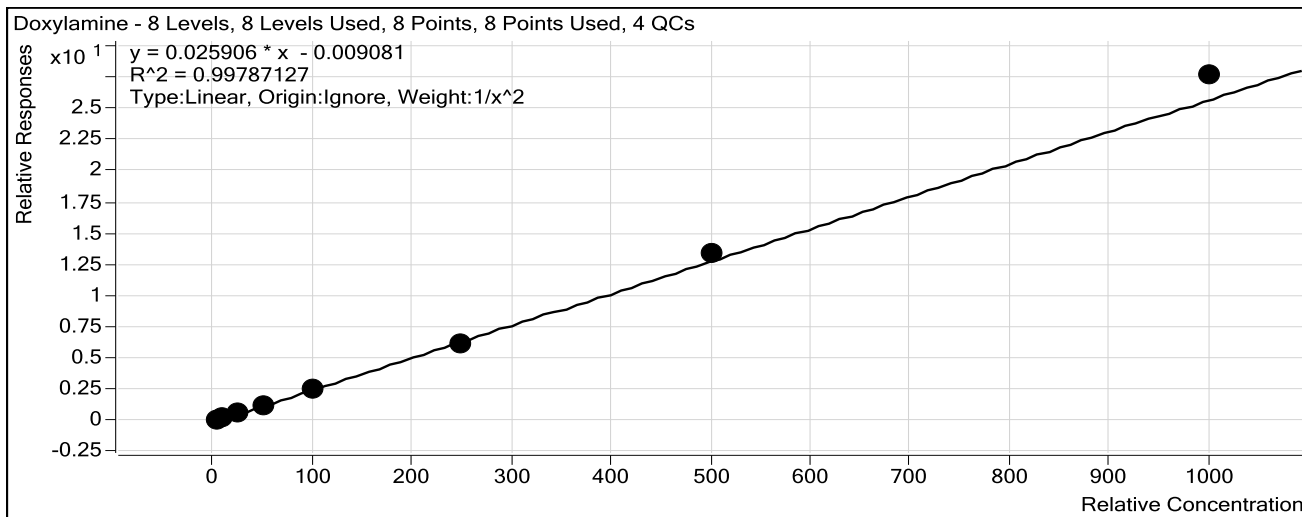


Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.3	106.3
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.4	104.3
a QC 10 (QC1)	2	<input checked="" type="checkbox"/>	10	10.3	102.7
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	25.4	101.7
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	47.1	94.2
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	100.7	100.7
a QC 100 (QC2)	5	<input checked="" type="checkbox"/>	100	100.2	100.2
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	228.7	91.5
a QC 250 (QC 3)	6	<input checked="" type="checkbox"/>	250	247.4	99.0
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	490.7	98.1
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1031.6	103.2
a QC 1000 (QC 4)	8	<input checked="" type="checkbox"/>	1000	969.5	97.0

ISP Forensics Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 1a TS 010918.batch.bin
Last Calib Update 1/22/2018 9:16 AM **Analyst Name** ISP TOX

Target Compound Doxylamine
Internal Standard Doxylamine-D5

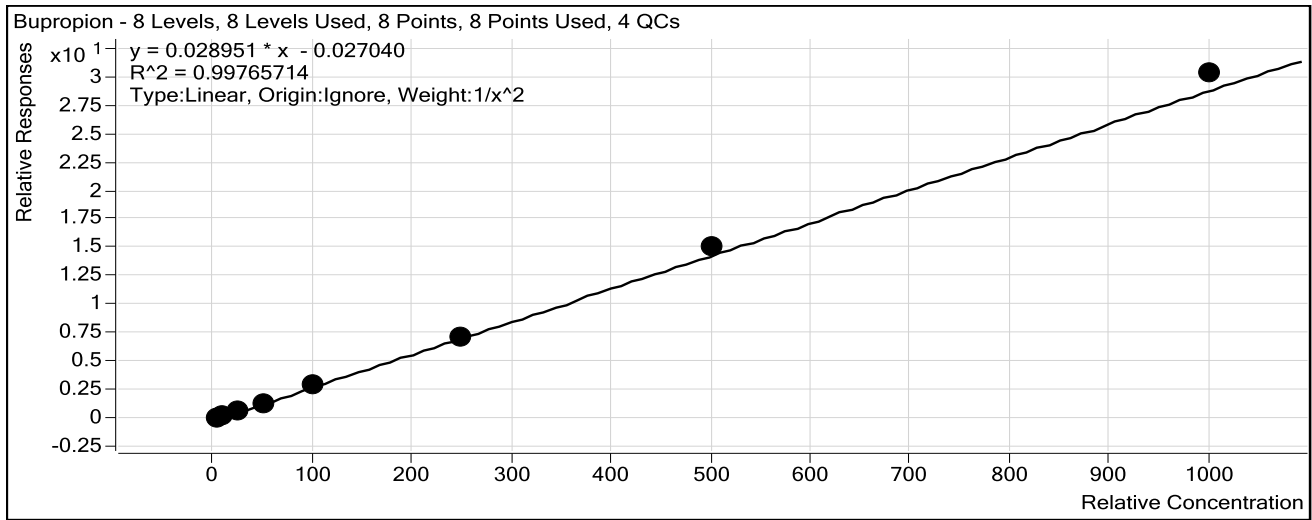


Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.0	100.4
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.1	101.2
a QC 10 (QC1)	2	<input checked="" type="checkbox"/>	10	9.6	96.1
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	24.5	98.1
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	47.6	95.1
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	98.0	98.0
a QC 100 (QC2)	5	<input checked="" type="checkbox"/>	100	97.0	97.0
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	240.3	96.1
a QC 250 (QC 3)	6	<input checked="" type="checkbox"/>	250	246.7	98.7
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	521.4	104.3
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1067.8	106.8
a QC 1000 (QC 4)	8	<input checked="" type="checkbox"/>	1000	1031.1	103.1

ISP Forensics Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 1a TS 010918.batch.bin
Last Calib Update 1/22/2018 9:16 AM **Analyst Name** ISP TOX

Target Compound *Bupropion*
Internal Standard *Bupropion-D9*



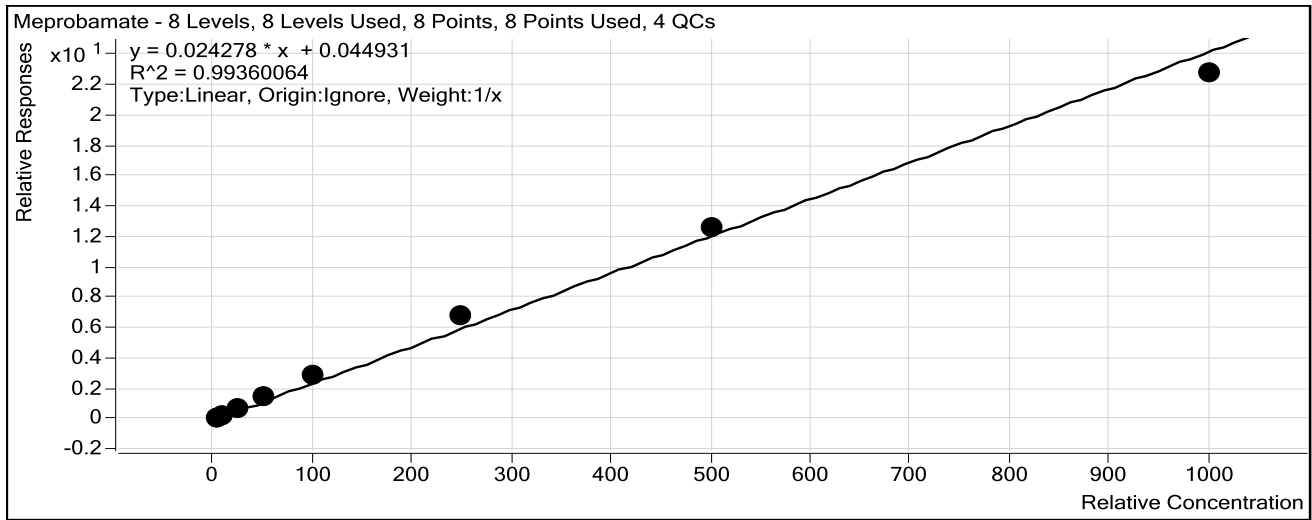
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.1	102.0
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.0	99.7
a QC 10 (QC1)	2	<input checked="" type="checkbox"/>	10	9.5	94.8
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	22.8	91.3
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	48.9	97.7
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	100.2	100.2
a QC 100 (QC2)	5	<input checked="" type="checkbox"/>	100	103.4	103.4
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	250.5	100.2
a QC 250 (QC 3)	6	<input checked="" type="checkbox"/>	250	256.5	102.6
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	520.9	104.2
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1046.7	104.7
a QC 1000 (QC 4)	8	<input checked="" type="checkbox"/>	1000	860.6	86.1

ISP Forensics Calibration Curve Report

CS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 1a TS 010918.batch.bin
Last Calib Update 1/22/2018 9:16 AM **Analyst Name** ISP TOX

Target Compound Meprobamate
Internal Standard Meprobamate-D7



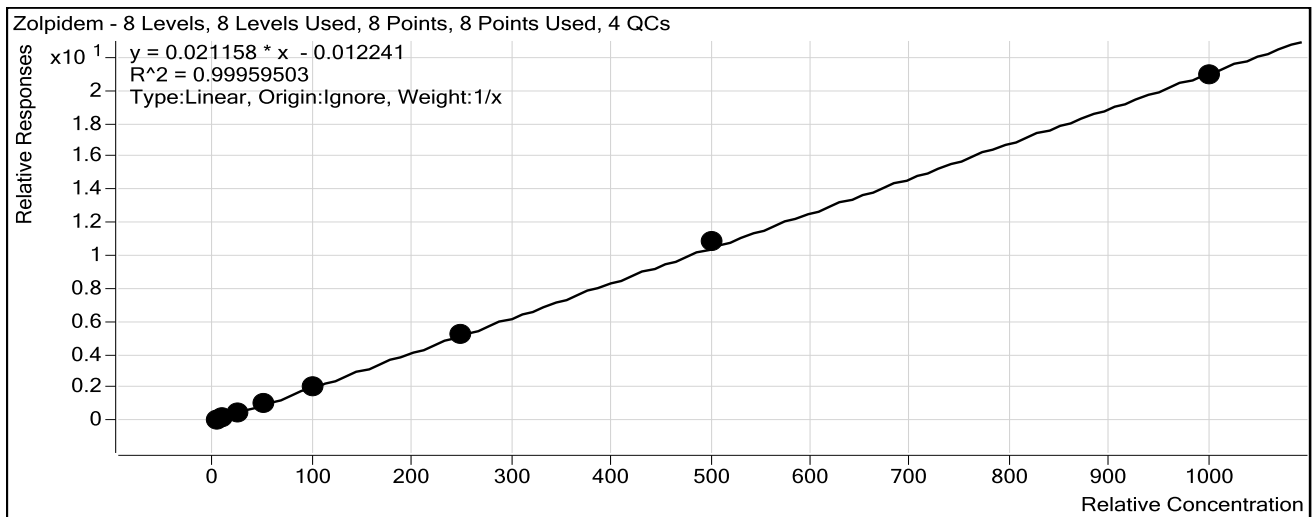
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	3.5	70.0
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	8.6	86.1
a QC 10 (QC1)	2	<input checked="" type="checkbox"/>	10	9.2	92.2
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	27.3	109.2
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	56.1	112.3
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	114.9	114.9
a QC 100 (QC2)	5	<input checked="" type="checkbox"/>	100	113.0	113.0
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	275.6	110.2
a QC 250 (QC 3)	6	<input checked="" type="checkbox"/>	250	257.4	103.0
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	519.0	103.8
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	935.0	93.5
a QC 1000 (QC 4)	8	<input checked="" type="checkbox"/>	1000	901.5	90.2

ISP Forensics Calibration Curve Report

CS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 1a TS 010918.batch.bin
Last Calib Update 1/22/2018 9:16 AM **Analyst Name** ISP TOX

Target Compound Zolpidem
Internal Standard Zolpidem-D6

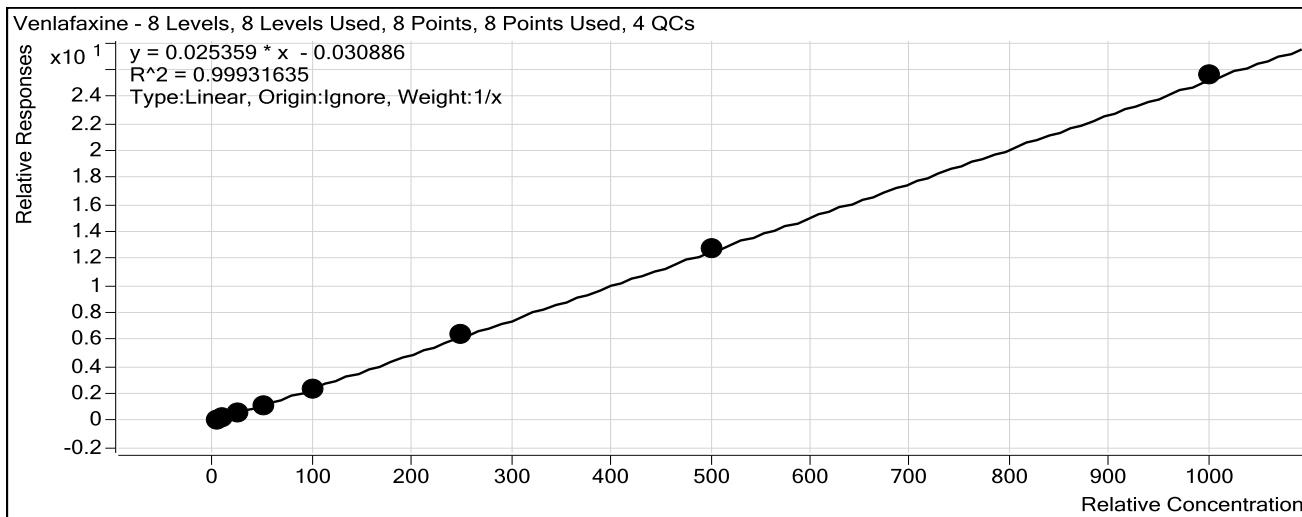


Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.0	99.9
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.0	100.1
a QC 10 (QC1)	2	<input checked="" type="checkbox"/>	10	10.4	104.5
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	25.0	100.1
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	49.5	98.9
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	100.8	100.8
a QC 100 (QC2)	5	<input checked="" type="checkbox"/>	100	100.3	100.3
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	245.4	98.2
a QC 250 (QC 3)	6	<input checked="" type="checkbox"/>	250	243.1	97.2
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	515.7	103.1
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	988.6	98.9
a QC 1000 (QC 4)	8	<input checked="" type="checkbox"/>	1000	950.0	95.0

ISP Forensics Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 1a TS 010918.batch.bin
Last Calib Update 1/22/2018 9:16 AM **Analyst Name** ISP TOX

Target Compound Venlafaxine
Internal Standard Venlafaxine-D6



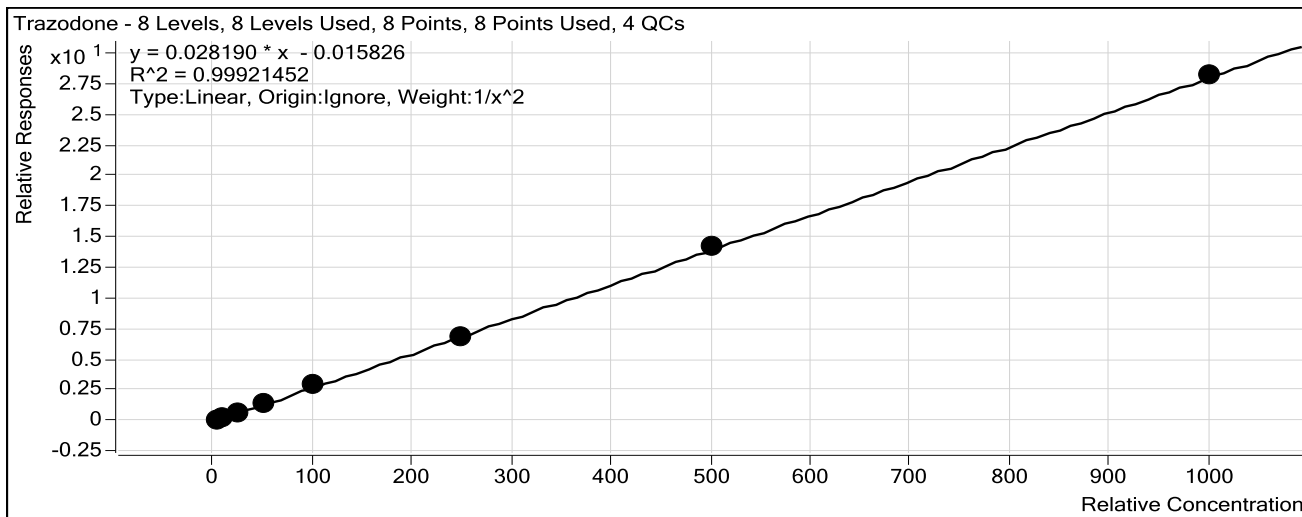
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.6	111.4
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.2	101.6
a QC 10 (QC1)	2	<input checked="" type="checkbox"/>	10	10.6	106.4
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	25.4	101.8
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	46.3	92.7
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	91.2	91.2
a QC 100 (QC2)	5	<input checked="" type="checkbox"/>	100	95.9	95.9
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	249.8	99.9
a QC 250 (QC 3)	6	<input checked="" type="checkbox"/>	250	241.8	96.7
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	502.4	100.5
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1009.1	100.9
a QC 1000 (QC 4)	8	<input checked="" type="checkbox"/>	1000	983.3	98.3

ISP Forensics Calibration Curve Report

CS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 1a TS 010918.batch.bin
Last Calib Update 1/22/2018 9:16 AM **Analyst Name** ISP TOX

Target Compound Trazodone
Internal Standard Trazodone-D6

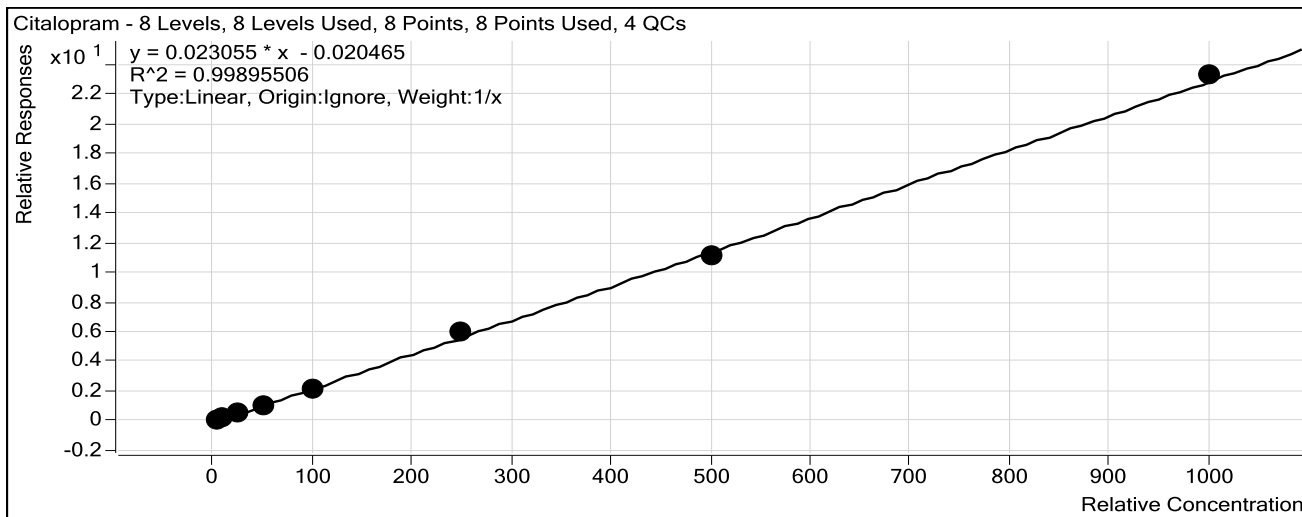


Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	4.9	98.6
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.3	103.4
a QC 10 (QC1)	2	<input checked="" type="checkbox"/>	10	10.0	100.2
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	24.5	98.2
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	49.7	99.4
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	103.0	103.0
a QC 100 (QC2)	5	<input checked="" type="checkbox"/>	100	105.0	105.0
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	240.6	96.2
a QC 250 (QC 3)	6	<input checked="" type="checkbox"/>	250	261.4	104.6
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	505.3	101.1
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1000.6	100.1
a QC 1000 (QC 4)	8	<input checked="" type="checkbox"/>	1000	971.9	97.2

ISP Forensics Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 1a TS 010918.batch.bin
Last Calib Update 1/22/2018 9:16 AM **Analyst Name** ISP TOX

Target Compound Citalopram
Internal Standard Citalopram-D6



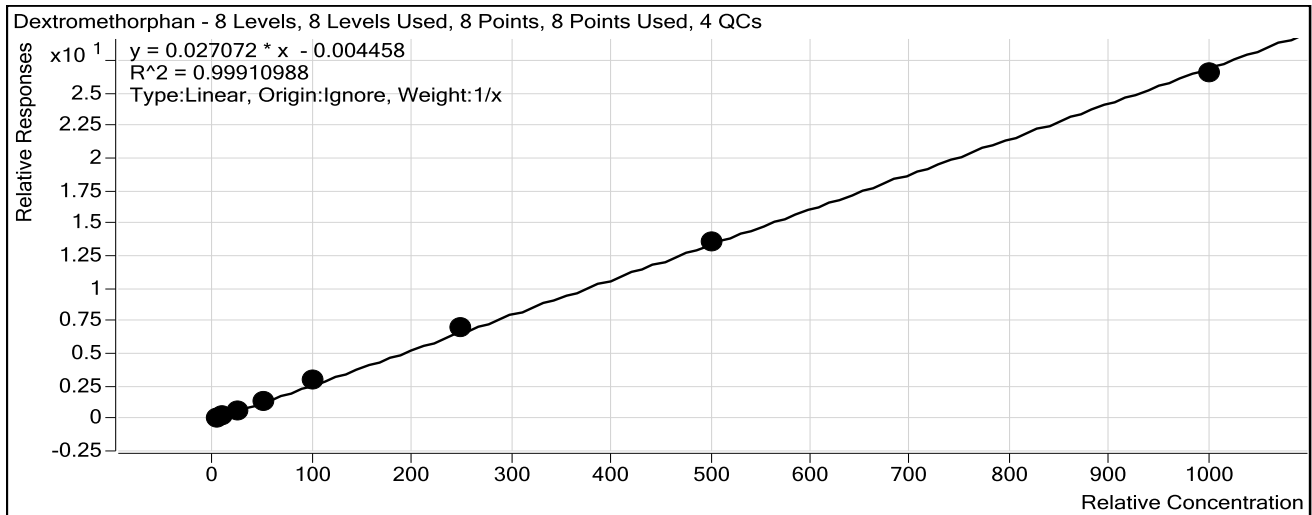
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.6	111.9
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.8	98.2
a QC 10 (QC1)	2	<input checked="" type="checkbox"/>	10	10.2	101.7
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	25.2	100.9
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	45.0	90.0
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	96.1	96.1
a QC 100 (QC2)	5	<input checked="" type="checkbox"/>	100	88.6	88.6
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	261.8	104.7
a QC 250 (QC 3)	6	<input checked="" type="checkbox"/>	250	235.3	94.1
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	485.1	97.0
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1011.4	101.1
a QC 1000 (QC 4)	8	<input checked="" type="checkbox"/>	1000	966.2	96.6

ISP Forensics Calibration Curve Report

CS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 1a TS 010918.batch.bin
Last Calib Update 1/22/2018 9:16 AM **Analyst Name** ISP TOX

Target Compound *Dextromethorphan*
Internal Standard *Dextromethorphan-D3*



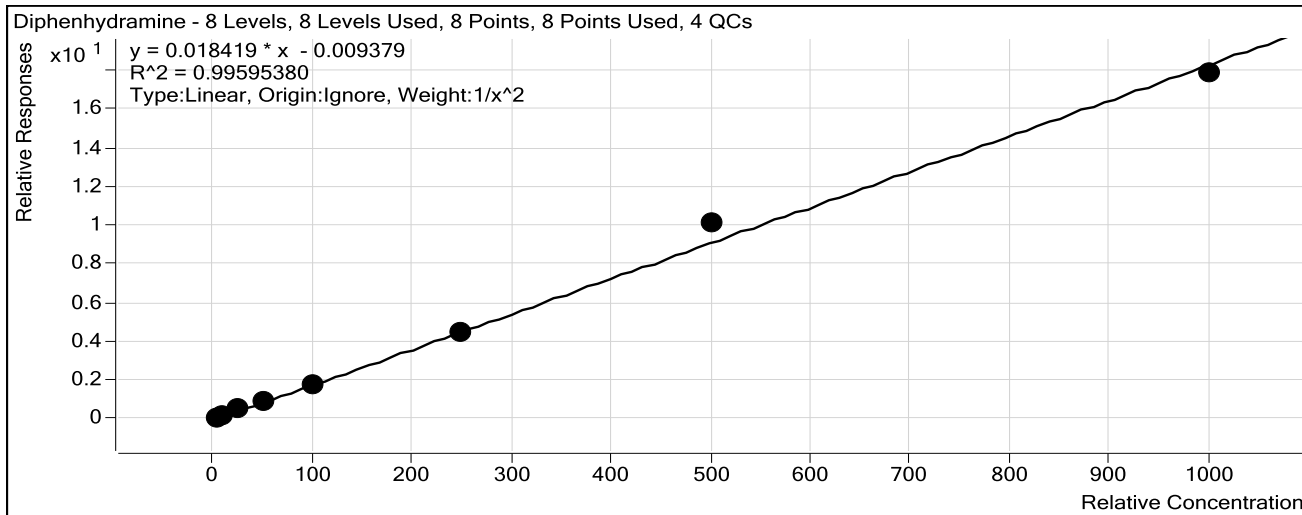
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	4.7	94.4
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.9	98.6
a QC 10 (QC1)	2	<input checked="" type="checkbox"/>	10	9.7	97.3
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	24.9	99.6
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	48.4	96.7
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	107.4	107.4
a QC 100 (QC2)	5	<input checked="" type="checkbox"/>	100	100.9	100.9
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	260.8	104.3
a QC 250 (QC 3)	6	<input checked="" type="checkbox"/>	250	232.5	93.0
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	504.9	101.0
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	979.0	97.9
a QC 1000 (QC 4)	8	<input checked="" type="checkbox"/>	1000	860.7	86.1

ISP Forensics Calibration Curve Report

CS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 1a TS 010918.batch.bin
Last Calib Update 1/22/2018 9:16 AM **Analyst Name** ISP TOX

Target Compound Diphenhydramine
Internal Standard Diphenhydramine-D3



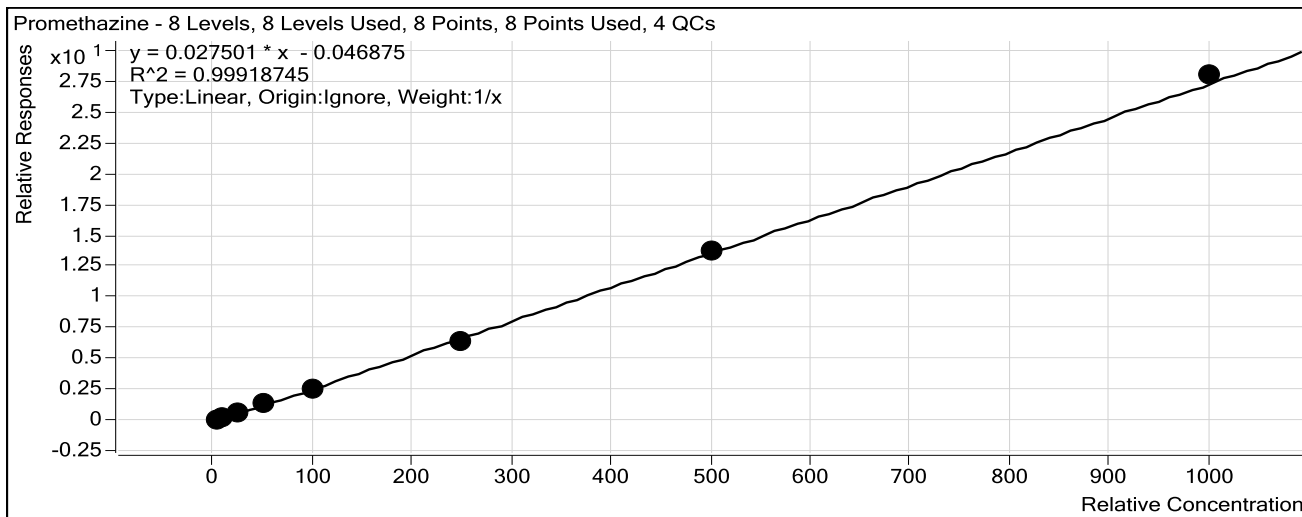
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.0	99.5
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.1	100.6
a QC 10 (QC1)	2	<input checked="" type="checkbox"/>	10	10.2	101.7
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	26.3	105.2
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	47.1	94.2
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	94.7	94.7
a QC 100 (QC2)	5	<input checked="" type="checkbox"/>	100	96.8	96.8
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	245.8	98.3
a QC 250 (QC 3)	6	<input checked="" type="checkbox"/>	250	249.1	99.6
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	553.2	110.6
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	969.3	96.9
a QC 1000 (QC 4)	8	<input checked="" type="checkbox"/>	1000	928.1	92.8

ISP Forensics Calibration Curve Report

CS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 1a TS 010918.batch.bin
Last Calib Update 1/22/2018 9:16 AM **Analyst Name** ISP TOX

Target Compound Promethazine
Internal Standard Promethazine-D3



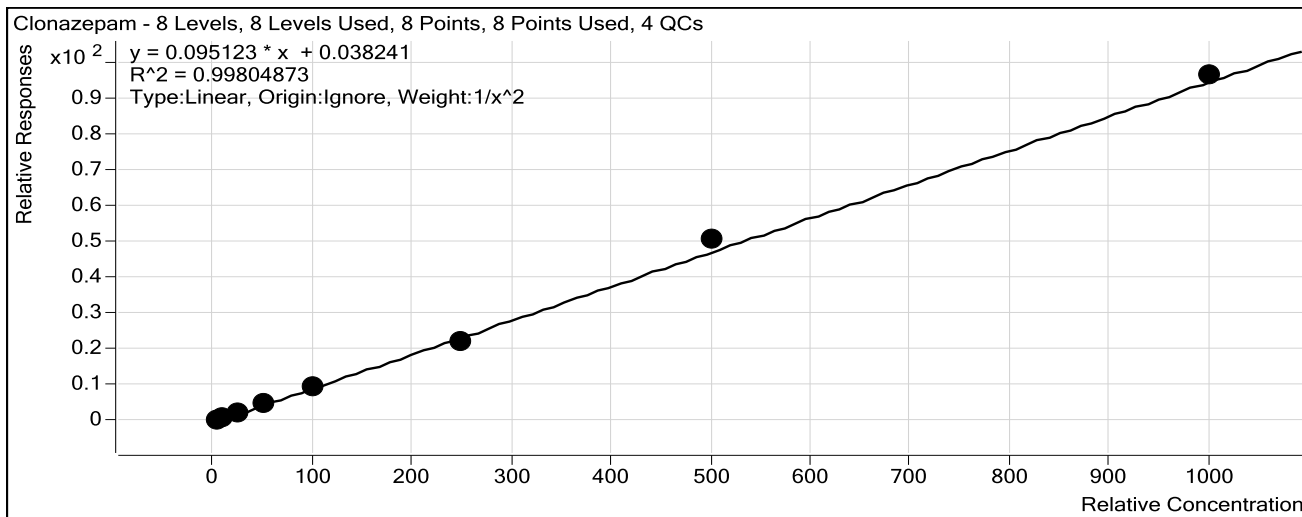
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.6	112.8
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.9	98.7
a QC 10 (QC1)	2	<input checked="" type="checkbox"/>	10	11.2	112.3
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	24.6	98.5
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	49.2	98.3
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	95.3	95.3
a QC 100 (QC2)	5	<input checked="" type="checkbox"/>	100	96.9	96.9
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	236.2	94.5
a QC 250 (QC 3)	6	<input checked="" type="checkbox"/>	250	254.9	101.9
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	500.7	100.1
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1018.6	101.9
a QC 1000 (QC 4)	8	<input checked="" type="checkbox"/>	1000	998.3	99.8

ISP Forensics Calibration Curve Report

CS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 1a TS 010918.batch.bin
Last Calib Update 1/22/2018 9:16 AM **Analyst Name** ISP TOX

Target Compound Clonazepam
Internal Standard Clonazepam-D4

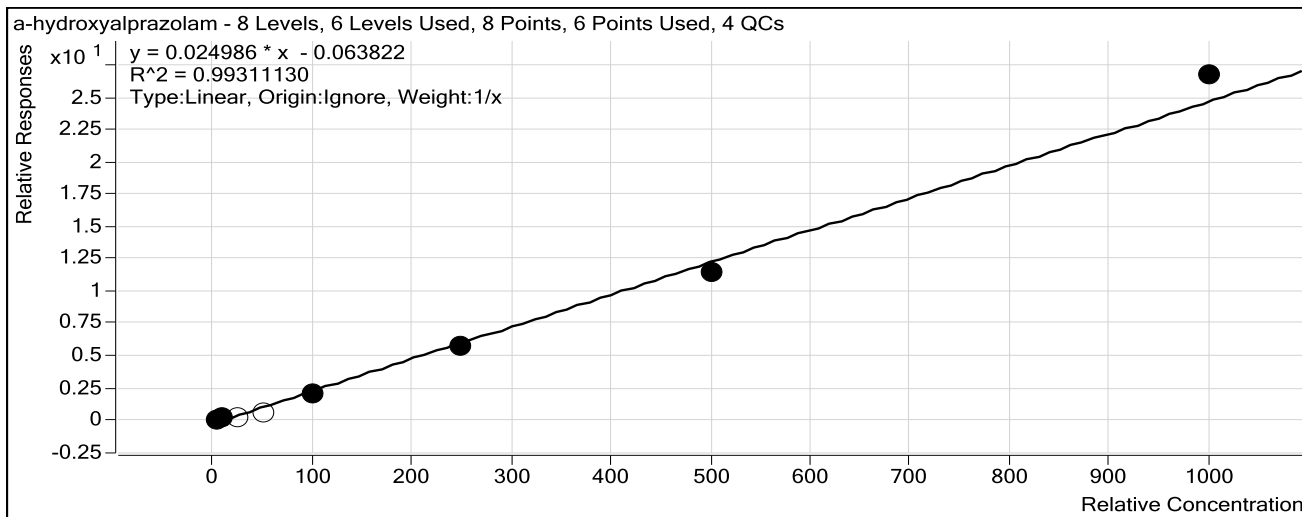


Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.0	100.6
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.8	98.1
a QC 10 (QC1)	2	<input checked="" type="checkbox"/>	10	10.8	108.1
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	26.0	104.0
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	48.4	96.7
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	98.5	98.5
a QC 100 (QC2)	5	<input checked="" type="checkbox"/>	100	107.5	107.5
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	236.3	94.5
a QC 250 (QC 3)	6	<input checked="" type="checkbox"/>	250	283.2	113.3
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	531.2	106.2
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1013.6	101.4
a QC 1000 (QC 4)	8	<input checked="" type="checkbox"/>	1000	1050.1	105.0

ISP Forensics Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 1a TS 010918.batch.bin
Last Calib Update 1/22/2018 9:16 AM **Analyst Name** ISP TOX

Target Compound *a-hydroxyalprazolam*
Internal Standard *a-hydroxyalprazolam-D5*

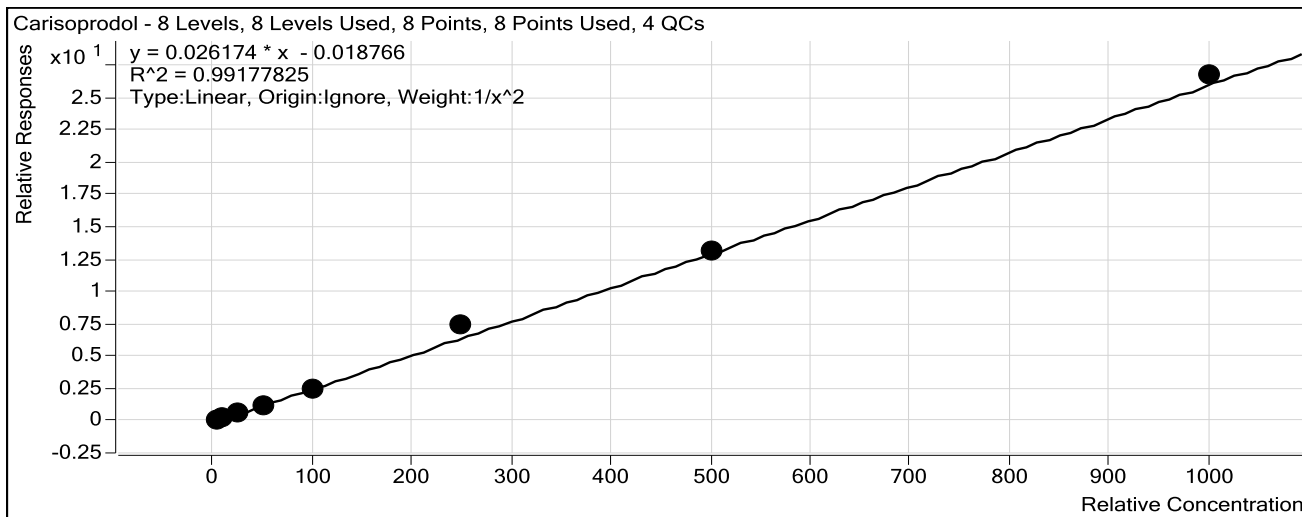


Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.9	117.9
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.4	103.7
a QC 10 (QC1)	2	<input checked="" type="checkbox"/>	10	10.1	101.5
a cal 3-25ng	3	<input type="checkbox"/>	25	12.3	49.4 - Top of peak cut off
a cal 4-50ng	4	<input type="checkbox"/>	50	27.6	55.2 - Top of peak cut off
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	87.4	87.4
a QC 100 (QC2)	5	<input checked="" type="checkbox"/>	100	91.3	91.3
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	230.1	92.0
a QC 250 (QC 3)	6	<input checked="" type="checkbox"/>	250	210.2	84.1
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	458.3	91.7
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1073.0	107.3
a QC 1000 (QC 4)	8	<input checked="" type="checkbox"/>	1000	911.0	91.1

ISP Forensics Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 1a TS 010918.batch.bin
Last Calib Update 1/22/2018 9:16 AM **Analyst Name** ISP TOX

Target Compound Carisoprodol
Internal Standard Carisoprodol-D7



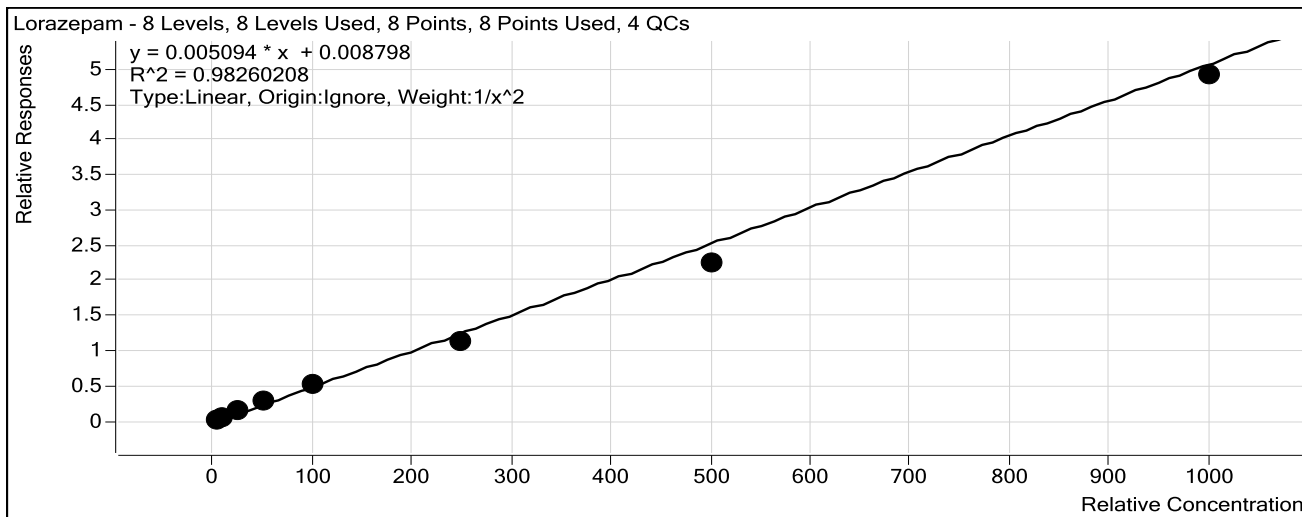
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.2	103.1
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.4	94.4
a QC 10 (QC1)	2	<input checked="" type="checkbox"/>	10	10.0	99.5
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	26.0	103.9
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	45.5	90.9
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	90.4	90.4
a QC 100 (QC2)	5	<input checked="" type="checkbox"/>	100	92.9	92.9
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	285.5	114.2
a QC 250 (QC 3)	6	<input checked="" type="checkbox"/>	250	202.8	81.1
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	504.5	100.9
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1022.1	102.2
a QC 1000 (QC 4)	8	<input checked="" type="checkbox"/>	1000	828.1	82.8

ISP Forensics Calibration Curve Report

CS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 1a TS 010918.batch.bin
Last Calib Update 1/22/2018 9:16 AM **Analyst Name** ISP TOX

Target Compound Lorazepam
Internal Standard Alprazolam-D5



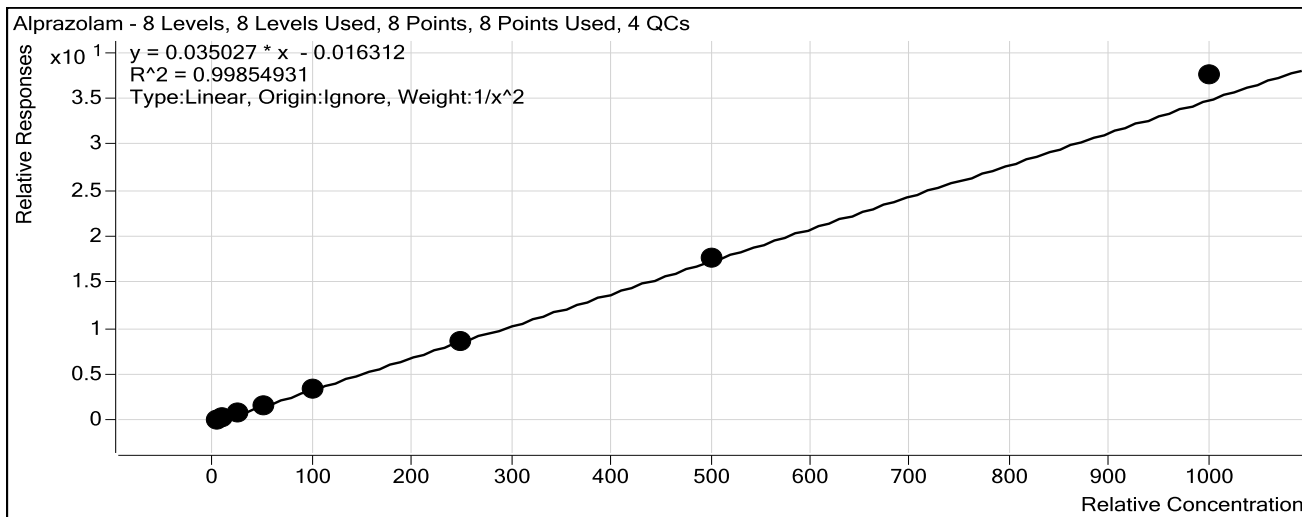
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	4.5	90.8
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	11.0	110.4
a QC 10 (QC1)	2	<input checked="" type="checkbox"/>	10	10.7	106.6
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	29.1	116.3
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	55.8	111.7
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	100.0	100.0
a QC 100 (QC2)	5	<input checked="" type="checkbox"/>	100	100.9	100.9
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	217.7	87.1
a QC 250 (QC 3)	6	<input checked="" type="checkbox"/>	250	214.6	85.8
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	437.7	87.5
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	962.1	96.2
a QC 1000 (QC 4)	8	<input type="checkbox"/>	1000	953.9	95.4

ISP Forensics Calibration Curve Report

CS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 1a TS 010918.batch.bin
Last Calib Update 1/22/2018 9:16 AM **Analyst Name** ISP TOX

Target Compound Alprazolam
Internal Standard Alprazolam-D5



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.1	101.1
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.9	99.3
a QC 10 (QC1)	2	<input checked="" type="checkbox"/>	10	9.9	99.1
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	24.6	98.6
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	48.3	96.6
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	96.8	96.8
a QC 100 (QC2)	5	<input checked="" type="checkbox"/>	100	99.2	99.2
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	248.1	99.2
a QC 250 (QC 3)	6	<input checked="" type="checkbox"/>	250	250.2	100.1
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	507.0	101.4
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1069.7	107.0
a QC 1000 (QC 4)	8	<input checked="" type="checkbox"/>	1000	1038.1	103.8

ISP FORENSICS - Pocatello Instrument # 59740

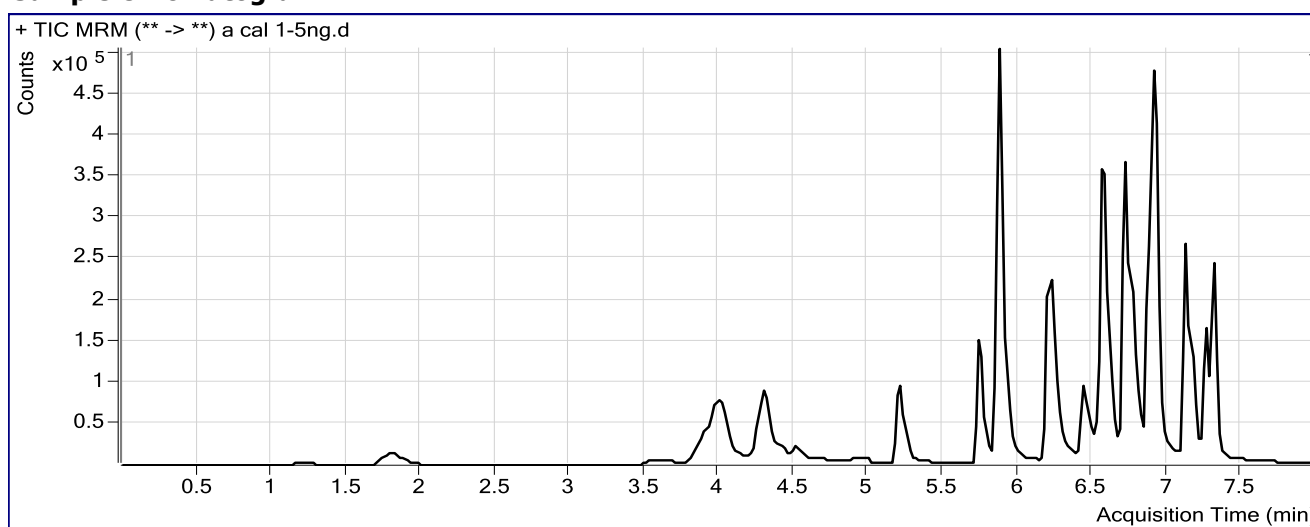
Multi-Drug Confirmatory Analysis Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 1a TS 010918.l
Analysis Time 1/19/2018 5:23 PM **Analyst Name** ISPUser
Report Time 1/19/2018 5:34 PM **Reporter Name** ISPUser
Last Calib Update 1/19/2018 5:22 PM **Batch State** Processed

Analysis Info

Acq Time 2018-01-09 18:38 **Data File** a cal 1-5ng.d
Sample Type Calibration **Sample Name** a cal 1-5ng
Dilution 1 **Acq Method** MD Quant Panel 1a 12-12-17.m
Position P1-A1 **Sample Info**
Inj Vol -1 **Comment** AM 28

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.248	2745	19257	0.1425	6.0894
Hydromorphone	Hydromorphone-D6	1.829	13031	93403	0.1395	5.1686
Codeine	Codeine-D6	3.692	5087	48864	0.1041	5.9191
Oxycodone	Oxycodone-D6	4.026	39924	308740	0.1293	5.0974
Amphetamine	Amphetamine-D11	4.043	102873	204188	0.5038	4.3561
Hydrocodone	Hydrocodone-D6	4.331	14850	170570	0.0871	4.9398
Norhydrocodone	Norhydrocodone-D3	4.355	685	39614	0.0173	16.7133
Methamphetamine	Methamphetamine-D11	4.419	37287	249387	0.1495	4.9161
Phentermine	Phentermine-D5	5.261	20641	386128	0.0535	4.1709
Dextroprphan	Dextroprphan-D3	5.740	21730	439419	0.0495	5.1452
7-aminoclonazepam	7-Aminoclonazepam-D4	5.871	38271	298102	0.1284	4.5118
Tramadol	Tramadol-13C-D3	5.897	132917	1283026	0.1036	5.3132
Doxylamine	Doxylamine-D5	6.240	100704	832755	0.1209	5.0184
Bupropion	Bupropion-D9	6.468	34376	284895	0.1207	5.1018
Meprobamate	Meprobamate-D7	6.551	13022	100232	0.1299	3.5006
Zolpidem	Zolpidem-D6	6.596	117117	1253908	0.0934	4.9931
Venlafaxine	Venlafaxine-D6	6.722	102577	929129	0.1104	5.5715
Trazodone	Trazodone-D6	6.794	53049	430616	0.1232	4.9315
Citalopram	Citalopram-D6	6.876	51609	475394	0.1086	5.5965
Dextromethorphan	Dextromethorphan-D3	6.907	19851	160899	0.1234	4.7220

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ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report

Panel 1a Cal 1

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Diphenhydramine	Diphenhydramine-D3	6.930	88024	1070513	0.0822	4.9735
Promethazine	Promethazine-D3	7.126	66161	611398	0.1082	5.6393
Clonazepam	Clonazepam-D4	7.162	39609	76662	0.5167	5.0296
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.240	6052	72487	0.0835	5.8957
Carisoprodol	Carisoprodol-D7	7.272	31202	268555	0.1162	5.1560
Lorazepam	Alprazolam-D5	7.302	12683	397394	0.0319	4.5380
Alprazolam	Alprazolam-D5	7.305	63875	397394	0.1607	5.0546

ISP FORENSICS - Pocatello Instrument # 59740

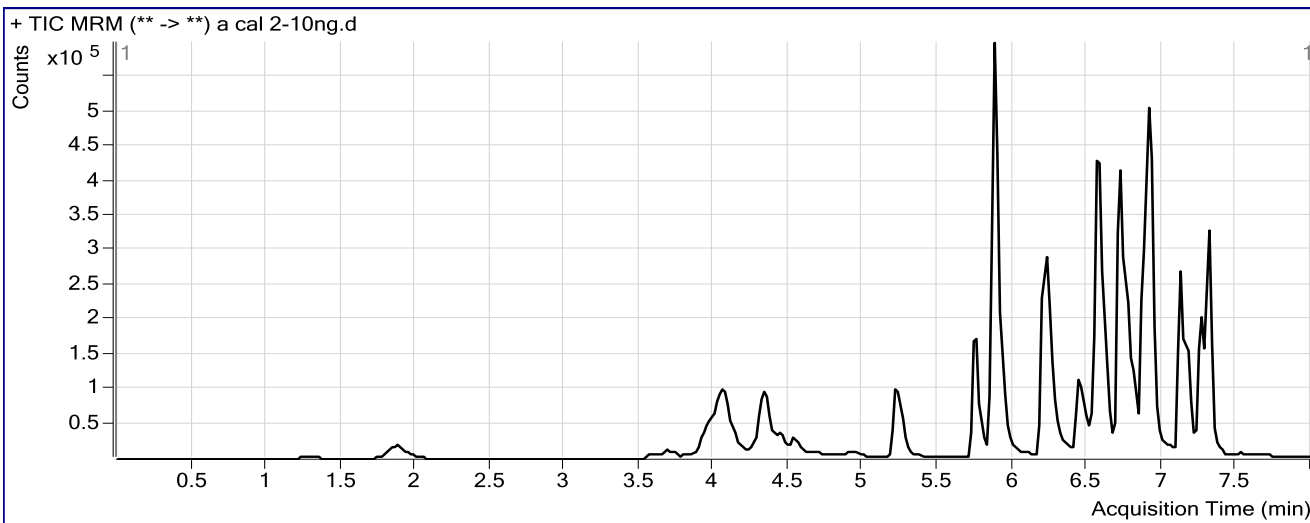
Multi-Drug Confirmatory Analysis Report

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Report Time	1/19/2018 5:34 PM	Reporter Name	ISPUser
Last Calib Update	1/19/2018 5:22 PM	Batch State	Processed

Analysis Info

Acq Time	2018-01-09 19:10	Data File	a cal 2-10ng.d
Sample Type	Calibration	Sample Name	a cal 2-10ng
Dilution	1	Acq Method	MD Quant Panel 1a 12-12-17.m
Position	P1-B1	Sample Info	
Inj Vol	-1	Comment	AM 28

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.288	6351	20840	0.3047	10.6707
Hydromorphone	Hydromorphone-D6	1.889	27041	96623	0.2799	9.6290
Codeine	Codeine-D6	3.712	11126	48146	0.2311	10.7140
Oxycodone	Oxycodone-D6	4.066	87488	334158	0.2618	9.6756
Amphetamine	Amphetamine-D11	4.083	178813	204430	0.8747	10.2868
Hydrocodone	Hydrocodone-D6	4.351	30589	191415	0.1598	9.3392
Norhydrocodone	Norhydrocodone-D3	4.375	1596	42219	0.0378	20.1145
Methamphetamine	Methamphetamine-D11	4.439	76942	234307	0.3284	10.5070
6-MAM	6-MAM-D6	4.567	1070	44908	0.0238	3.2826 Not evaluated
Phentermine	Phentermine-D5	5.261	40192	371710	0.1081	9.3399
Dextrophan	Dextrophan-D3	5.740	47430	476450	0.0995	9.5474
7-aminoclonazepam	7-Aminoclonazepam-D4	5.871	89343	345628	0.2585	9.5449
Tramadol	Tramadol-13C-D3	5.897	309594	1478861	0.2093	10.4313
Doxylamine	Doxylamine-D5	6.240	223602	883605	0.2531	10.1186
Bupropion	Bupropion-D9	6.468	77131	294856	0.2616	9.9696
Meprobamate	Meprobamate-D7	6.551	27831	109603	0.2539	8.6085
Zolpidem	Zolpidem-D6	6.576	274833	1377594	0.1995	10.0078
Venlafaxine	Venlafaxine-D6	6.722	222603	981879	0.2267	10.1580
Trazodone	Trazodone-D6	6.794	119751	434379	0.2757	10.3409
Citalopram	Citalopram-D6	6.856	95450	463429	0.2060	9.8214

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ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report

Panel 1a Cal 2

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Dextromethorphan	Dextromethorphan-D3	6.907	37389	142403	0.2626	9.8629
Diphenhydramine	Diphenhydramine-D3	6.930	174278	991022	0.1759	10.0570
Promethazine	Promethazine-D3	7.126	125744	560057	0.2245	9.8684
Clonazepam	Clonazepam-D4	7.162	87953	90526	0.9716	9.8119
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.240	15218	77938	0.1953	10.3692
Carisoprodol	Carisoprodol-D7	7.272	65694	287797	0.2283	9.4382
Lorazepam	Alprazolam-D5	7.282	28998	445824	0.0650	11.0415
Alprazolam	Alprazolam-D5	7.305	147818	445824	0.3316	9.9316

ISP FORENSICS - Pocatello Instrument # 59740

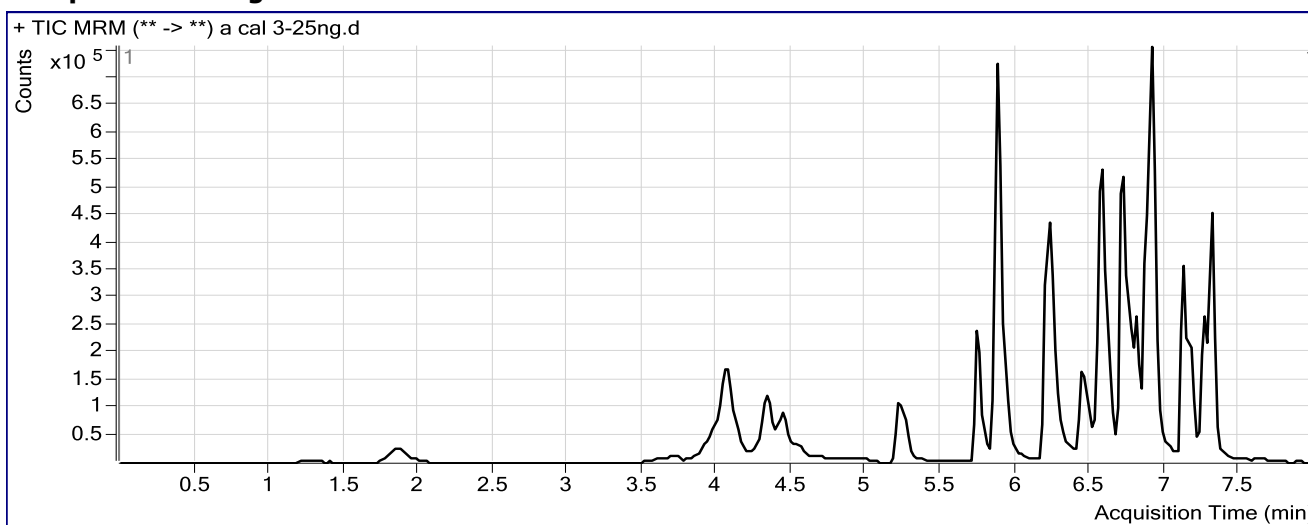
Multi-Drug Confirmatory Analysis Report

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Analysis Time	1/19/2018 5:23 PM	Analyst Name	ISPUser
Report Time	1/19/2018 5:34 PM	Reporter Name	ISPUser
Last Calib Update	1/19/2018 5:22 PM	Batch State	Processed

Analysis Info

Acq Time	2018-01-09 19:41	Data File	a cal 3-25ng.d
Sample Type	Calibration	Sample Name	a cal 3-25ng
Dilution	1	Acq Method	MD Quant Panel 1a 12-12-17.m
Position	P1-C1	Sample Info	
Inj Vol	-1	Comment	AM 28

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.288	13853	18120	0.7645	23.6567
Hydromorphone	Hydromorphone-D6	1.889	62396	85588	0.7290	23.9055
Codeine	Codeine-D6	3.712	26352	47940	0.5497	22.7450
Oxycodone	Oxycodone-D6	4.046	206043	295204	0.6980	24.7450
Amphetamine	Amphetamine-D11	4.083	405539	215205	1.8844	26.4335
Hydrocodone	Hydrocodone-D6	4.351	74598	175267	0.4256	25.4163
Norhydrocodone	Norhydrocodone-D3	4.375	3255	34202	0.0952	29.6175
Methamphetamine	Methamphetamine-D11	4.439	257555	330274	0.7798	24.6179
6-MAM	6-MAM-D6	4.547	2796	36576	0.0765	4.9290 Not evaluated
Phentermine	Phentermine-D5	5.261	122348	428737	0.2854	26.0977
Dextrophan	Dextrophan-D3	5.740	125544	461301	0.2722	24.7144
7-aminoclonazepam	7-Aminoclonazepam-D4	5.871	209177	308403	0.6783	25.7829
Tramadol	Tramadol-13C-D3	5.897	682515	1314040	0.5194	25.4372
Doxylamine	Doxylamine-D5	6.220	582588	929840	0.6265	24.5355
Bupropion	Bupropion-D9	6.468	177817	280440	0.6341	22.8354
Meprobamate	Meprobamate-D7	6.551	69895	98768	0.7077	27.2978
Zolpidem	Zolpidem-D6	6.576	642224	1241335	0.5174	25.0311
Venlafaxine	Venlafaxine-D6	6.722	566764	922504	0.6144	25.4452
Trazodone	Trazodone-D6	6.794	312266	461824	0.6762	24.5472
Citalopram	Citalopram-D6	6.856	264234	471024	0.5610	25.2201

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ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report

Panel 1a Cal 3

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Dextromethorphan	Dextromethorphan-D3	6.887	101990	152298	0.6697	24.9010
Diphenhydramine	Diphenhydramine-D3	6.910	481829	1014710	0.4748	26.2898
Promethazine	Promethazine-D3	7.126	355752	564649	0.6300	24.6139
Clonazepam	Clonazepam-D4	7.162	205877	82011	2.5104	25.9888
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.220	16967	69377	0.2446	12.3424
Carisoprodol	Carisoprodol-D7	7.272	164415	248810	0.6608	25.9642
Lorazepam	Alprazolam-D5	7.282	61146	389548	0.1570	29.0860
Alprazolam	Alprazolam-D5	7.305	329929	389548	0.8470	24.6457

ISP FORENSICS - Pocatello Instrument # 59740

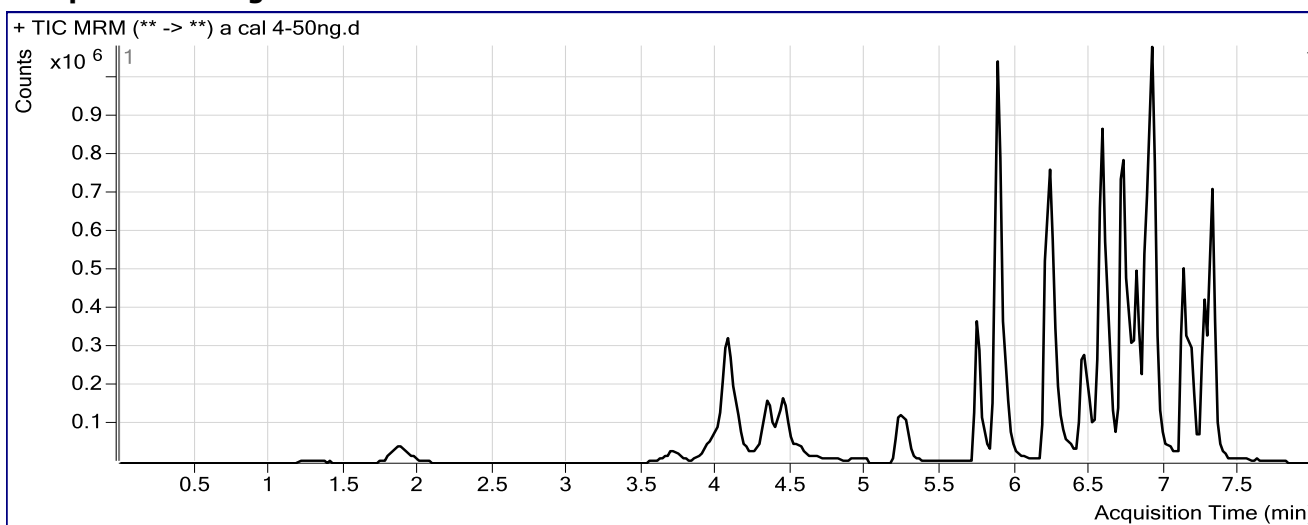
Multi-Drug Confirmatory Analysis Report

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Report Time	1/19/2018 5:34 PM	Reporter Name	ISPUser
Last Calib Update	1/19/2018 5:22 PM	Batch State	Processed

Analysis Info

Acq Time	2018-01-09 20:13	Data File	a cal 4-50ng.d
Sample Type	Calibration	Sample Name	a cal 4-50ng
Dilution	1	Acq Method	MD Quant Panel 1a 12-12-17.m
Position	P1-D1	Sample Info	
Inj Vol	-1	Comment	AM 28

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.288	28240	18752	1.5060	44.6013
Hydromorphone	Hydromorphone-D6	1.889	130299	90091	1.4463	46.7031
Codeine	Codeine-D6	3.692	54136	49097	1.1026	43.6237
Oxycodone	Oxycodone-D6	4.066	432769	310144	1.3954	48.8413
Amphetamine	Amphetamine-D11	4.083	776119	222502	3.4881	52.0783
Hydrocodone	Hydrocodone-D6	4.351	152152	181301	0.8392	50.4313
Norhydrocodone	Norhydrocodone-D3	4.375	7811	36686	0.2129	49.1236
Methamphetamine	Methamphetamine-D11	4.439	520622	338841	1.5365	48.2690
6-MAM	6-MAM-D6	4.547	5944	40261	0.1476	7.1560 Not evaluated
Phentermine	Phentermine-D5	5.261	224916	403794	0.5570	51.7805
Dextrophan	Dextrophan-D3	5.740	270186	495810	0.5449	48.6849
7-aminoclonazepam	7-Aminoclonazepam-D4	5.851	428260	306263	1.3983	53.6383
Tramadol	Tramadol-13C-D3	5.897	1420834	1468882	0.9673	47.1139
Doxylamine	Doxylamine-D5	6.220	1205299	985711	1.2228	47.5501
Bupropion	Bupropion-D9	6.468	417160	300714	1.3872	48.8506
Meprobamate	Meprobamate-D7	6.551	134917	95826	1.4079	56.1412
Zolpidem	Zolpidem-D6	6.576	1336783	1292505	1.0343	49.4613
Venlafaxine	Venlafaxine-D6	6.722	1184200	1034693	1.1445	46.3498
Trazodone	Trazodone-D6	6.794	649988	469157	1.3854	49.7078
Citalopram	Citalopram-D6	6.856	513313	504661	1.0171	45.0063

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ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report

Panel 1a Cal 4

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Dextromethorphan	Dextromethorphan-D3	6.887	200876	153982	1.3045	48.3518
Diphenhydramine	Diphenhydramine-D3	6.910	941885	1097652	0.8581	47.0973
Promethazine	Promethazine-D3	7.126	715976	548481	1.3054	49.1705
Clonazepam	Clonazepam-D4	7.162	349971	75428	4.6398	48.3747
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.260	39882	63724	0.6259	27.6026
Carisoprodol	Carisoprodol-D7	7.272	302269	258024	1.1715	45.4750
Lorazepam	Alprazolam-D5	7.282	114320	389836	0.2933	55.8394
Alprazolam	Alprazolam-D5	7.305	653288	389836	1.6758	48.3088

ISP FORENSICS - Pocatello Instrument # 59740

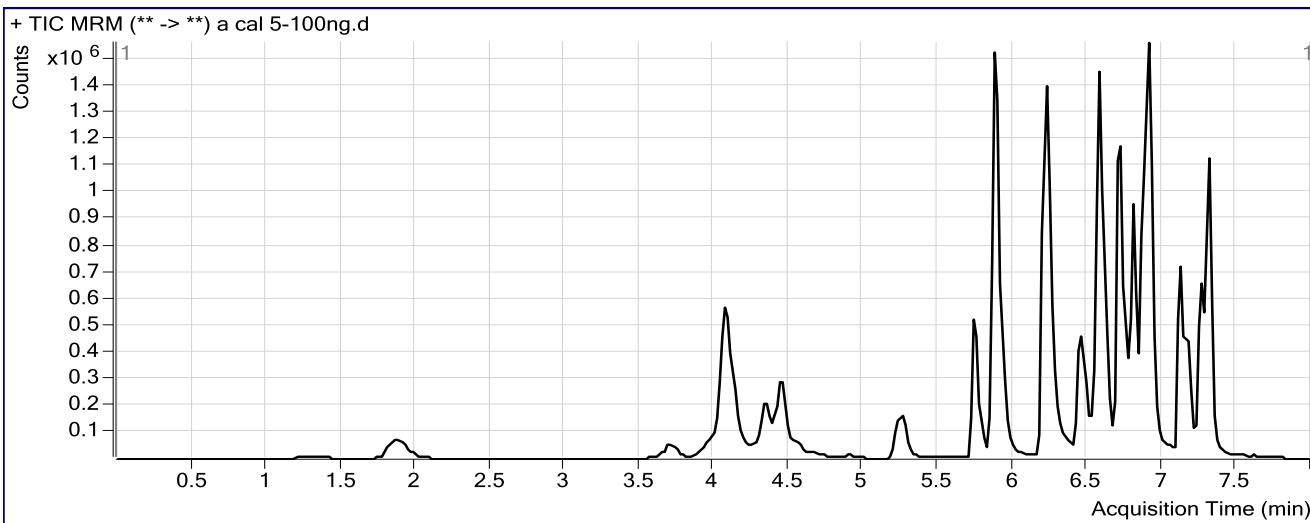
Multi-Drug Confirmatory Analysis Report

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Report Time	1/19/2018 5:34 PM	Reporter Name	ISPUser
Last Calib Update	1/19/2018 5:22 PM	Batch State	Processed

Analysis Info

Acq Time	2018-01-09 20:44	Data File	a cal 5-100ng.d
Sample Type	Calibration	Sample Name	a cal 5-100ng
Dilution	1	Acq Method	MD Quant Panel 1a 12-12-17.m
Position	P1-E1	Sample Info	
Inj Vol	-1	Comment	AM 28

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.288	55974	17813	3.1424	90.8239
Hydromorphone	Hydromorphone-D6	1.889	269047	87542	3.0733	98.4161
Codeine	Codeine-D6	3.712	110299	42159	2.6163	100.7797
Oxycodone	Oxycodone-D6	4.066	861062	300523	2.8652	99.6254
Amphetamine	Amphetamine-D11	4.103	1383884	208763	6.6290	102.3033
Hydrocodone	Hydrocodone-D6	4.351	299640	176457	1.6981	102.3764
Norhydrocodone	Norhydrocodone-D3	4.375	16695	35880	0.4653	90.9378
Methamphetamine	Methamphetamine-D11	4.459	945243	309871	3.0504	95.5916
6-MAM	6-MAM-D6	4.547	11064	37339	0.2963	11.8062 Not evaluated
Phentermine	Phentermine-D5	5.261	455444	380101	1.1982	112.4057
Dextropropion	Dextropropion-D3	5.740	499904	459277	1.0885	96.4453
7-aminoclonazepam	7-Aminoclonazepam-D4	5.871	809729	300879	2.6912	103.6511
Tramadol	Tramadol-13C-D3	5.897	2798497	1349388	2.0739	100.6712
Doxylamine	Doxylamine-D5	6.220	2392694	945590	2.5304	98.0242
Bupropion	Bupropion-D9	6.468	777695	270729	2.8726	100.1569
Meprobamate	Meprobamate-D7	6.551	250091	88241	2.8342	114.8881
Zolpidem	Zolpidem-D6	6.576	2692181	1268992	2.1215	100.8488
Venlafaxine	Venlafaxine-D6	6.722	2192078	960688	2.2818	91.1973
Trazodone	Trazodone-D6	6.794	1261703	436889	2.8879	103.0063
Citalopram	Citalopram-D6	6.856	929880	423608	2.1951	96.1019

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ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report

Panel 1a Cal 5

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Dextromethorphan	Dextromethorphan-D3	6.887	394818	135975	2.9036	107.4184
Diphenhydramine	Diphenhydramine-D3	6.910	1728976	996264	1.7355	94.7320
Promethazine	Promethazine-D3	7.126	1289280	501034	2.5732	95.2722
Clonazepam	Clonazepam-D4	7.162	597869	63572	9.4046	98.4657
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.240	126364	59601	2.1202	87.4101
Carisoprodol	Carisoprodol-D7	7.272	550076	234352	2.3472	90.3961
Lorazepam	Alprazolam-D5	7.282	186766	360537	0.5180	99.9632
Alprazolam	Alprazolam-D5	7.305	1216295	360537	3.3736	96.7787

ISP FORENSICS - Pocatello Instrument # 59740

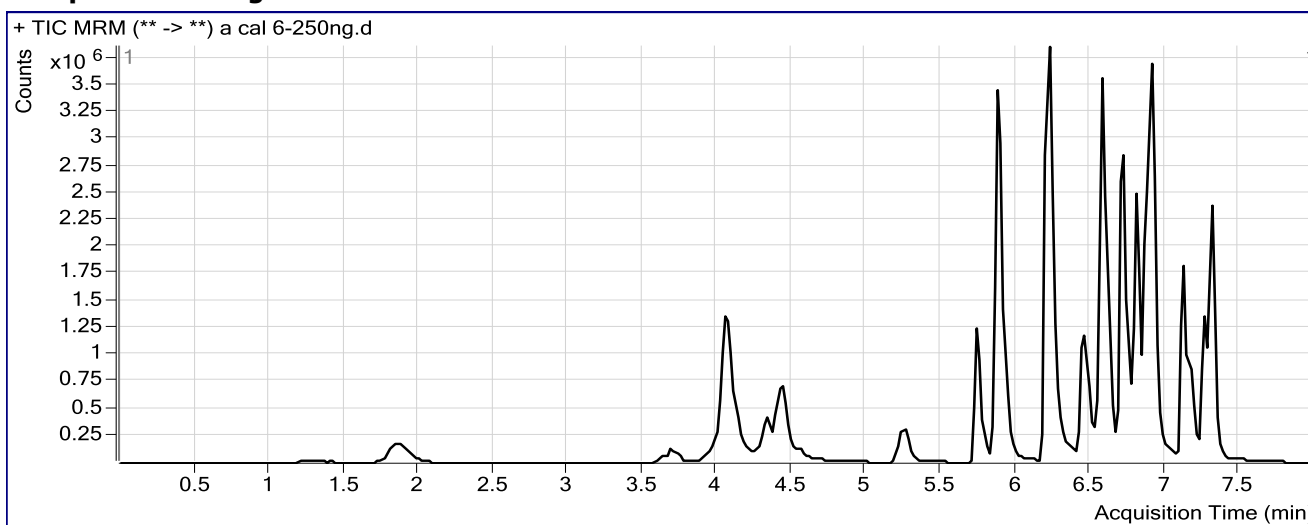
Multi-Drug Confirmatory Analysis Report

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Report Time	1/19/2018 5:34 PM	Reporter Name	ISPUser
Last Calib Update	1/19/2018 5:22 PM	Batch State	Processed

Analysis Info

Acq Time	2018-01-09 21:16	Data File	a cal 6-250ng.d
Sample Type	Calibration	Sample Name	a cal 6-250ng
Dilution	1	Acq Method	MD Quant Panel 1a 12-12-17.m
Position	P1-F1	Sample Info	
Inj Vol	-1	Comment	AM 28

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.288	153344	18613	8.2387	234.7766
Hydromorphone	Hydromorphone-D6	1.869	741097	94407	7.8500	250.2358
Codeine	Codeine-D6	3.692	288119	45431	6.3418	241.4560
Oxycodone	Oxycodone-D6	4.046	2311631	322824	7.1607	248.0370
Amphetamine	Amphetamine-D11	4.083	3370783	217135	15.5239	244.5421
Hydrocodone	Hydrocodone-D6	4.331	805694	189960	4.2414	256.1979
Norhydrocodone	Norhydrocodone-D3	4.375	46053	34481	1.3356	235.1239
Methamphetamine	Methamphetamine-D11	4.439	2424704	309488	7.8346	245.1305
6-MAM	6-MAM-D6	4.547	24813	52525	0.4724	17.3149 Not evaluated
Phentermine	Phentermine-D5	5.261	1158551	424871	2.7268	256.9325
Dextroprphan	Dextroprphan-D3	5.740	1390408	501816	2.7708	244.2727
7-aminoclonazepam	7-Aminoclonazepam-D4	5.851	1960837	293024	6.6917	258.4049
Tramadol	Tramadol-13C-D3	5.897	7623887	1615786	4.7184	228.6574
Doxylamine	Doxylamine-D5	6.220	6655533	1070826	6.2153	240.2652
Bupropion	Bupropion-D9	6.468	2169673	300236	7.2266	250.5479
Meprobamate	Meprobamate-D7	6.551	577808	85773	6.7365	275.6211
Zolpidem	Zolpidem-D6	6.576	7384099	1425268	5.1808	245.4441
Venlafaxine	Venlafaxine-D6	6.722	6424443	1019035	6.3044	249.8263
Trazodone	Trazodone-D6	6.794	3382032	499830	6.7664	240.5886
Citalopram	Citalopram-D6	6.856	2750516	457342	6.0141	261.7505

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ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report

Panel 1a Cal 6

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Dextromethorphan	Dextromethorphan-D3	6.887	1092165	154794	7.0556	260.7853
Diphenhydramine	Diphenhydramine-D3	6.910	4962869	1098617	4.5174	245.7698
Promethazine	Promethazine-D3	7.126	3764890	583921	6.4476	236.1517
Clonazepam	Clonazepam-D4	7.162	1154416	51268	22.5173	236.3149
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.240	284799	50099	5.6848	230.0747
Carisoprodol	Carisoprodol-D7	7.272	1274341	170992	7.4526	285.4563
Lorazepam	Alprazolam-D5	7.282	375827	336157	1.1180	217.7438
Alprazolam	Alprazolam-D5	7.305	2915976	336157	8.6745	248.1156

ISP FORENSICS - Pocatello Instrument # 59740

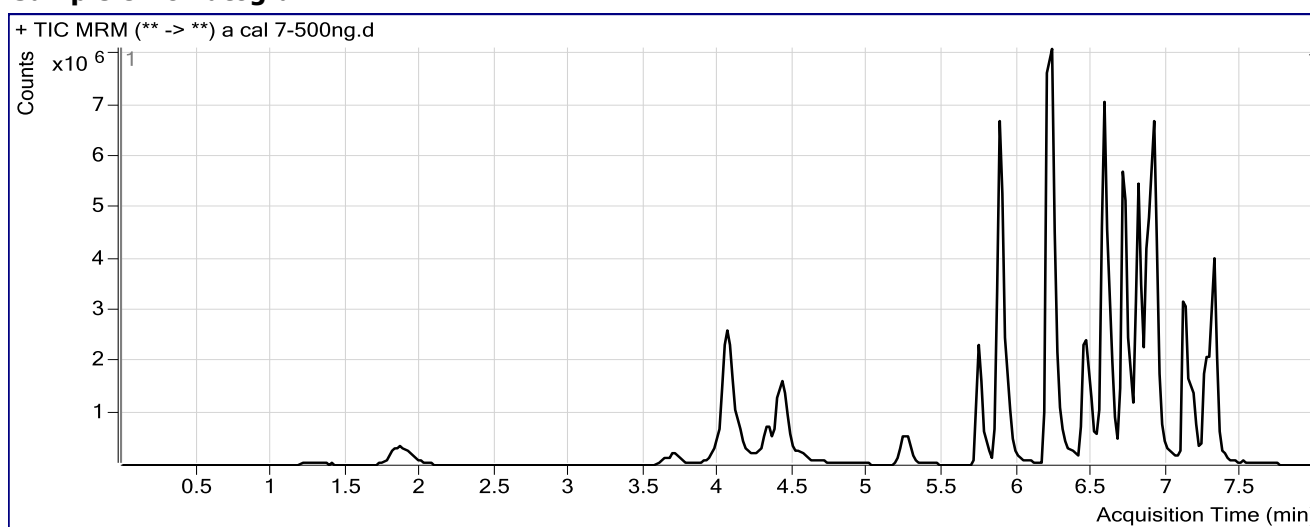
Multi-Drug Confirmatory Analysis Report

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Report Time	1/19/2018 5:34 PM	Reporter Name	ISPUser
Last Calib Update	1/19/2018 5:22 PM	Batch State	Processed

Analysis Info

Acq Time	2018-01-09 21:47	Data File	a cal 7-500ng.d
Sample Type	Calibration	Sample Name	a cal 7-500ng
Dilution	1	Acq Method	MD Quant Panel 1a 12-12-17.m
Position	P1-G1	Sample Info	
Inj Vol	-1	Comment	AM 28

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.288	336133	19067	17.6294	500.0315
Hydromorphone	Hydromorphone-D6	1.869	1577801	94508	16.6949	531.3577
Codeine	Codeine-D6	3.692	572326	45772	12.5039	474.1362
Oxycodone	Oxycodone-D6	4.046	4950617	333022	14.8657	514.2541
Amphetamine	Amphetamine-D11	4.063	6341497	227217	27.9094	442.5976
Hydrocodone	Hydrocodone-D6	4.311	1617835	190620	8.4872	512.9905
Norhydrocodone	Norhydrocodone-D3	4.355	85589	31588	2.7095	462.7553
Methamphetamine	Methamphetamine-D11	4.419	5524848	336453	16.4209	513.5155
6-MAM	6-MAM-D6	4.547	63526	46883	1.3550	44.9241 - Not evaluated
Phentermine	Phentermine-D5	5.261	2300746	416618	5.5224	521.2505
Dextrophan	Dextrophan-D3	5.740	2827708	480616	5.8835	517.7979
7-aminoclonazepam	7-Aminoclonazepam-D4	5.851	3446378	274928	12.5356	484.4661
Tramadol	Tramadol-13C-D3	5.876	16682934	1646314	10.1335	490.7368
Doxylamine	Doxylamine-D5	6.220	14976709	1109422	13.4996	521.4404
Bupropion	Bupropion-D9	6.468	4574563	303886	15.0535	520.9016
Meprobamate	Meprobamate-D7	6.551	996666	78820	12.6448	518.9798
Zolpidem	Zolpidem-D6	6.576	15544956	1426410	10.8980	515.6554
Venlafaxine	Venlafaxine-D6	6.701	13666435	1075393	12.7083	502.3559
Trazodone	Trazodone-D6	6.794	7668989	538997	14.2283	505.2881
Citalopram	Citalopram-D6	6.856	4878821	437019	11.1639	485.1195

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ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report

Panel 1a Cal 7

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Dextromethorphan	Dextromethorphan-D3	6.887	1974584	144493	13.6656	504.9468
Diphenhydramine	Diphenhydramine-D3	6.910	10082591	990437	10.1799	553.2057
Promethazine	Promethazine-D3	7.105	7830948	570624	13.7235	500.7167
Clonazepam	Clonazepam-D4	7.162	1908990	37754	50.5633	531.1531
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.240	486173	42695	11.3870	458.2934
Carisoprodol	Carisoprodol-D7	7.272	2386810	181000	13.1868	504.5393
Lorazepam	Alprazolam-D5	7.282	668474	298651	2.2383	437.6647
Alprazolam	Alprazolam-D5	7.305	5298575	298651	17.7417	506.9798

ISP FORENSICS - Pocatello Instrument # 59740

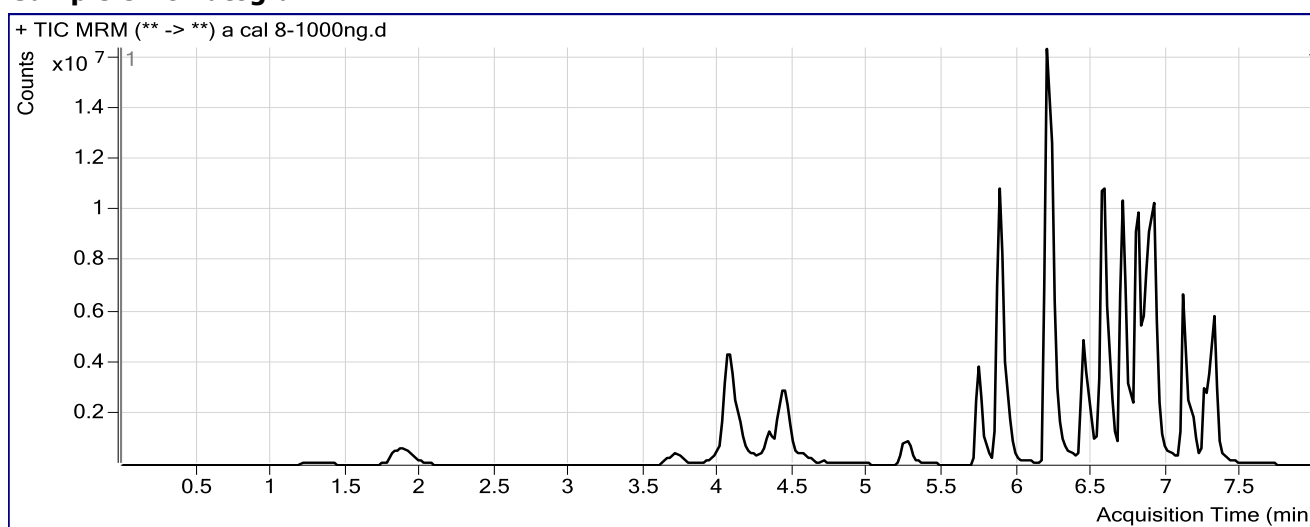
Multi-Drug Confirmatory Analysis Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 1a TS 010918.l
Analysis Time 1/19/2018 5:23 PM **Analyst Name** ISPUser
Report Time 1/19/2018 5:34 PM **Reporter Name** ISPUser
Last Calib Update 1/19/2018 5:22 PM **Batch State** Processed

Analysis Info

Acq Time 2018-01-09 22:19 **Data File** a cal 8-1000ng.d
Sample Type Calibration **Sample Name** a cal 8-1000ng
Dilution 1 **Acq Method** MD Quant Panel 1a 12-12-17.m
Position P1-H1 **Sample Info**
Inj Vol -1 **Comment** AM 28

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.288	630799	17345	36.3687	1029.3498
Hydromorphone	Hydromorphone-D6	1.889	2944535	87914	33.4934	1065.2774
Codeine	Codeine-D6	3.712	1025612	37286	27.5063	1040.6263
Oxycodone	Oxycodone-D6	4.046	9544303	317659	30.0458	1038.7377
Amphetamine	Amphetamine-D11	4.083	10597705	215145	49.2585	783.9901
Hydrocodone	Hydrocodone-D6	4.331	2960124	182940	16.1808	978.3087
Norhydrocodone	Norhydrocodone-D3	4.375	151760	24093	6.2990	1057.4418
Methamphetamine	Methamphetamine-D11	4.439	10680858	317274	33.6645	1052.5053
6-MAM	6-MAM-D6	4.547	126136	38856	3.2463	104.0873 Not evaluated
Phentermine	Phentermine-D5	5.261	4223832	416469	10.1420	958.0222
Dextroprphan	Dextroprphan-D3	5.740	5106807	417048	12.2451	1076.8089
7-aminoclonazepam	7-Aminoclonazepam-D4	5.851	5068759	233396	21.7174	839.6534
Tramadol	Tramadol-13C-D3	5.876	30290084	1421421	21.3097	1031.6389
Doxylamine	Doxylamine-D5	6.200	29092036	1051963	27.6550	1067.8476
Bupropion	Bupropion-D9	6.448	8510880	281115	30.2754	1046.6843
Meprobamate	Meprobamate-D7	6.551	1509541	66371	22.7440	934.9628
Zolpidem	Zolpidem-D6	6.576	28162498	1347256	20.9036	988.5583
Venlafaxine	Venlafaxine-D6	6.701	25686308	1004993	25.5587	1009.0959
Trazodone	Trazodone-D6	6.794	15124112	536502	28.1902	1000.5692
Citalopram	Citalopram-D6	6.856	9278672	398281	23.2968	1011.3839

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ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report

Panel 1a Cal 8

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Dextromethorphan	Dextromethorphan-D3	6.887	3783570	142778	26.4997	979.0117
Diphenhydramine	Diphenhydramine-D3	6.910	17388590	974532	17.8430	969.2543
Promethazine	Promethazine-D3	7.105	14450741	516743	27.9651	1018.5672
Clonazepam	Clonazepam-D4	7.162	2513366	26057	96.4578	1013.6265
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.240	770443	28807	26.7448	1072.9569
Carisoprodol	Carisoprodol-D7	7.272	3451826	129127	26.7321	1022.0576
Lorazepam	Alprazolam-D5	7.282	1089108	221823	4.9098	962.0926
Alprazolam	Alprazolam-D5	7.305	8307879	221823	37.4528	1069.7180