

Worklist: 2116

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>
P2017-2681	1	104566	AM 28 Blood Multi-Drug Quant
P2017-3084	1	104567	AM 28 Blood Multi-Drug Quant



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

D

Extraction Date: 01/09/18

Analyst: Sarah Pickle

Plate lot#: 0507680

Plate Expiration: ~~05/31/2018~~ 06/05/2018 **F**

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: #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 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: MSD Panel 1 and 2 TS 010918 Batch Name: MDQ Panel 2a SP 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: Did not evaluate benzo-glecgonine. See deviation request.
Curve Ranges Limited: metoprolol 5-500 mirtazapine 5-250 Ondansetron 5-250

Steps 3-16 of the analysis was performed by Tamara Salazar acting as primary technician. I pipetted my own samples (step #2). I witnessed, reviewed, + approved of all work during the extraction.

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Toxicology AM method 28 panel 2 external prep information
Working Solution 10000 ng/ml in MeOH zopiclone, cocaine, flunitrazepam
Stock Solution 1mg/ml 100 ul each in 9700 ul MeOH (Fisher Lot # 172516)
Prepared: 01/09/18 Expires: 07/09/18 By:TNS

Drug	Lot	Expiration
Zopiclone	FE08291601	12/31/2021
Cocaine	FE07271503	9/30/2020
Flunitrazepam	FE08054202 FE08051602	8/31/2021

AM 28 control 50 ul working solution lot (WS010918) in 9950ul blood (Hemostat Lot# 361331-2)
Prepared: 01/09/18 Expires: 07/09/18 By: TNS

Idaho State Police
Forensic Services
Toxicology Discipline

TS

Request for Departure from an Analytical Method

Date of Request

01/19/2018

Forensic Scientist

Sarah Pickle, Tamara Salazar

Analytical Method

Toxicology AM #28: Blood Multi-Drug Confirmatory Analysis by LCMS-QQQ

Request

I am formally requesting a deviation to drop benzoylecgonine from the panel 2a multi-drug confirmation analysis for the batch run on 01/09/2018. There was an unintended positive result for this compound in the external control. At this time, it has not been determined if it was caused by cocaine breaking down in our stock solution or prepared control, or if it is an issue with the data acquisition. The acquisition method will be updated to include a third transition that should help to eliminated false positives for benzoylecgonine for future runs. In addition, the control will also be checked to determine if breakdown of the cocaine occurred.

Discipline Leader Review

Departure approved

Comments:

Departure Not Approved

Comments:

Date: 01/19/2018

Celena Shrum
Toxicology Discipline Lead

ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report

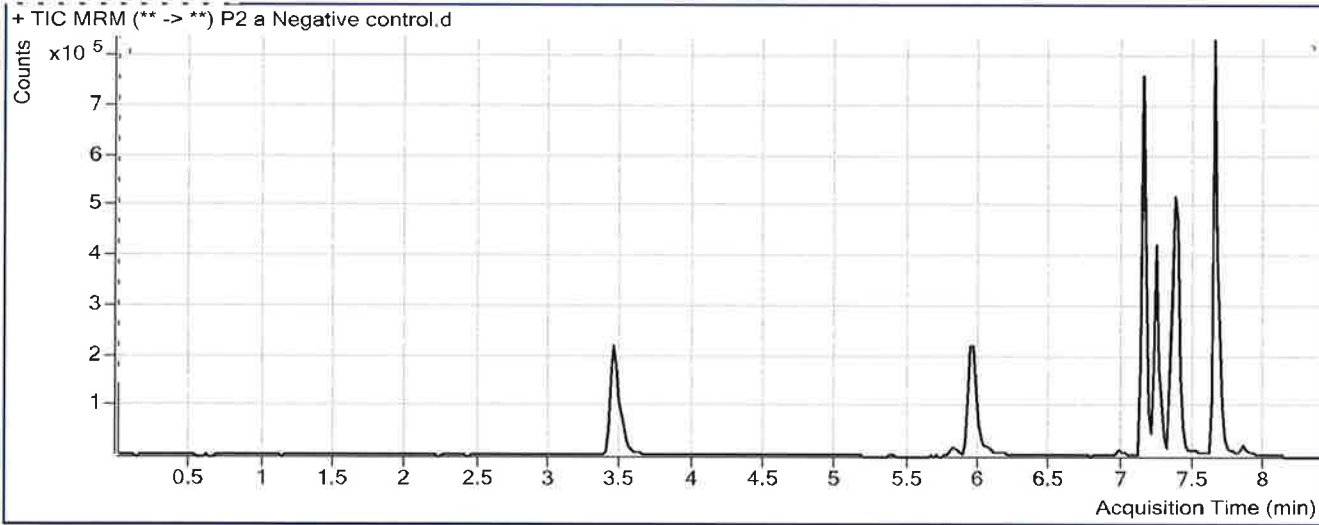
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Report Time	1/19/2018 2:08 PM	Reporter Name	ISPUser
Last Calib Update	1/19/2018 2:05 PM	Batch State	Processed

Analysis Info

Acq Time	#VALUE!	Data File	P2 a Negative control.d
Sample Type	Sample	Sample Name	a Negative control
Dilution	1	Acq Method	MDQ Panel 2a 3-12-17-3.m
Position	P1-F6	Sample Info	
Inj Vol	-1	Comment	AM 28-Panel 2

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Cocaine	Cocaine-D3	5.912	7782	507836	0.0153	0.7880 <5
Carbamazepine	Carbamazepine-13C6	7.151	7692	1629122	0.0047	0.8478 <5
Protriptyline	Protriptyline-d3	7.229	2454	35016	0.0701	4.4666 <5
Maprotiline	Nortriptyline-d3	7.245	3065	26342	0.1163	2.4615 <5
alpha-hydroxymidazolam	alpha-hydroxymidazolam-D4	7.336	6397	657009	0.0097	0.3555 <5

ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report

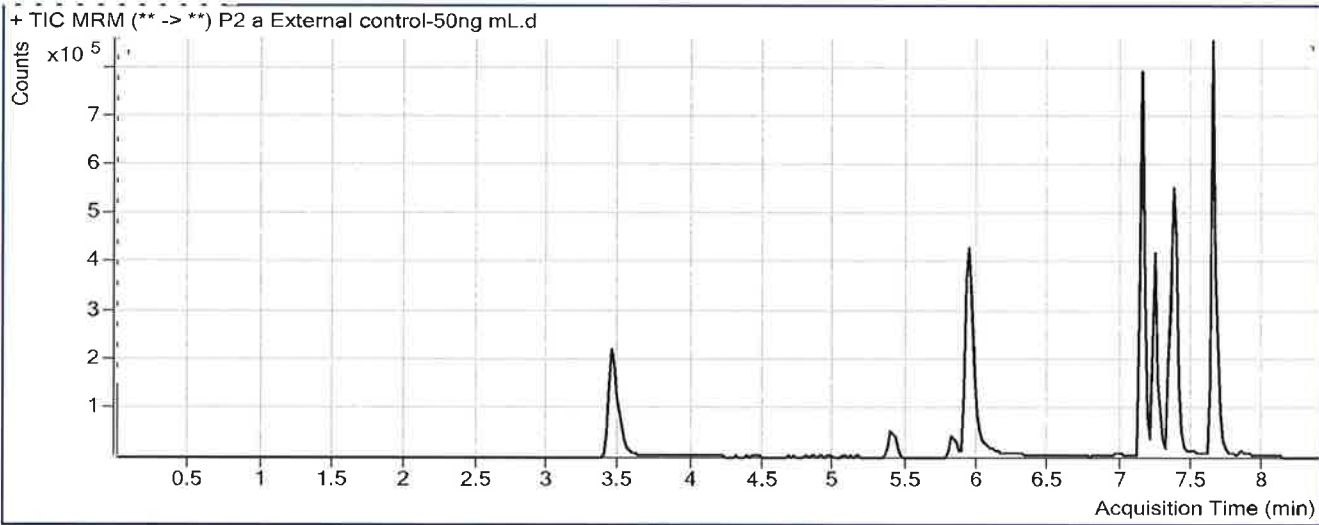
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Report Time 1/19/2018 2:08 PM **Reporter Name** ISPUser
Last Calib Update 1/19/2018 2:05 PM **Batch State** Processed

Analysis Info

Acq Time 2018-01-10 17:58 **Data File** P2 a External control-50ng mL.d
Sample Type Sample **Sample Name** a External control-50ng mL
Dilution 1 **Acq Method** MDQ Panel 2a 3-12-17-3.m
Position P1-E6 **Sample Info**
Inj Vol -1 **Comment** AM 28; WS010918 50 ng flunitrazepam, zopiclone, cocaine

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Benzoylcegonine	Benzoylcegonine-d8	5.413	104695	9714	10.7775	49.1382
Zopiclone	Zopiclone-D4	5.808	64278	54563	1.1781	47.2296
Cocaine	Cocaine-D3	5.912	657155	522868	1.2568	51.4025
Carbamazepine	Carbamazepine-13C6	7.151	3677	1856124	0.0020	0.6982 <5

* Did not evaluate benzoylcegonine.

ISP FORENSICS - Pocatello Instrument # 59740

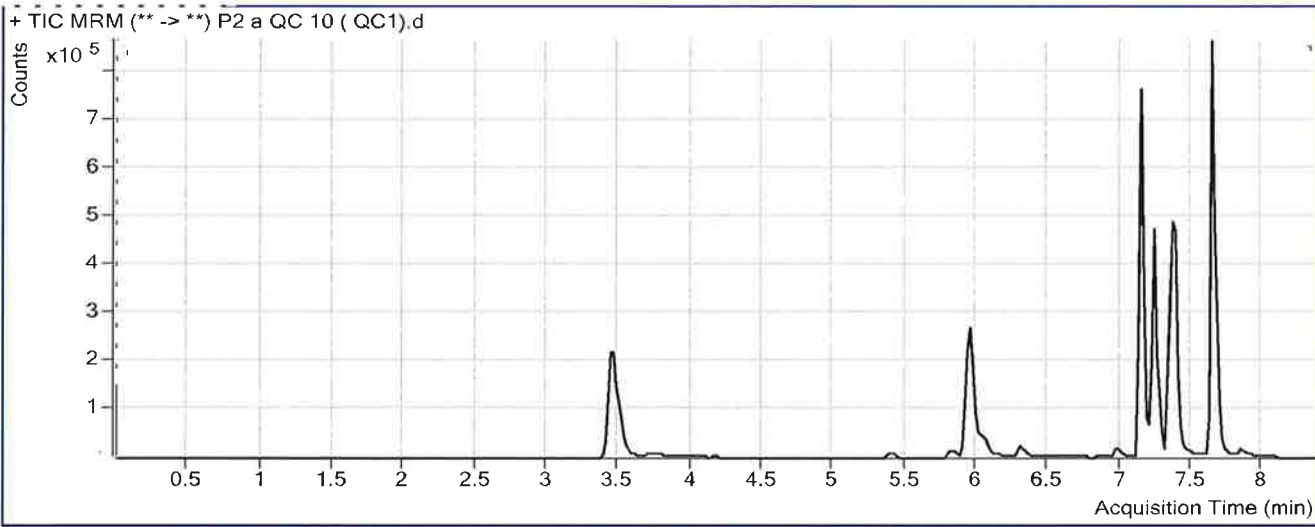
Multi-Drug Confirmatory Analysis Report

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Report Time 1/19/2018 2:08 PM **Reporter Name** ISPUser
Last Calib Update 1/19/2018 2:05 PM **Batch State** Processed

Analysis Info

Acq Time 2018-01-10 19:01 **Data File** P2 a QC 10 (QC1).d
Sample Type QC **Sample Name** a QC 10 (QC1)
Dilution 1 **Acq Method** MDQ Panel 2a 3-12-17-3.m
Position P1-A6 **Sample Info**
Inj Vol -1 **Comment** AM 28-Panel 2

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Pseudoephedrine	Pseudoephedrine-D3	3.476	213740	890203	0.2401	10.4077
Levamisole	Benzoyllecgonine-d8	3.744	34494	8498	4.0589	9.3161
Benzoyllecgonine	Benzoyllecgonine-d8	5.413	16490	8498	1.9404	19.8721 <i>not evaluated</i>
Zopiclone	Zopiclone-D4	5.828	9484	43108	0.2200	10.1583
Cocaine	Cocaine-D3	5.932	100584	409045	0.2459	10.1884
Methylphenidate	Methylphenidate-D4	5.965	118106	483627	0.2442	9.9887
Metoprolol	Methylphenidate-D4	6.000	21774	483627	0.0450	9.9015
Ondansetron	Carbamazepine-13C6	6.036	61671	1458342	0.0423	9.4684
Mirtazapine	Carbamazepine-13C6	6.303	50603	1458342	0.0347	9.9498
Mitragynine	Doxepin-D3	6.871	10194	55080	0.1851	9.7181
Doxepin	Doxepin-D3	6.981	10812	55080	0.1963	10.6084
Carbamazepine	Carbamazepine-13C6	7.151	237674	1458342	0.1630	9.4859
Protriptyline	Protriptyline-d3	7.208	16129	73723	0.2188	11.0324
Estazolam	Estazolam-D5	7.242	142591	727307	0.1961	10.8152
Amitriptyline	Amitriptyline-D3	7.245	20785	42633	0.4875	9.5714
Maprotiline	Nortriptyline-d3	7.245	20365	56974	0.3574	8.0989
Nortriptyline	Nortriptyline-d3	7.249	12439	56974	0.2183	10.4826
alpha-hydroxymidazolam	alpha-hydroxymidazolam-D4	7.336	104970	536041	0.1958	11.0582
Midazolam	Midazolam-D4	7.358	28995	399592	0.0726	9.6163

ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report P2a QC 10

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Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Chlordiazepoxide	Chlordiazepoxide-D5	7.381	57865	656371	0.0882	9.6086
Phenazepam	Phenazepam-D4	7.415	25152	49915	0.5039	9.1487
Prazepam	Prazepam-D5	7.640	330580	1450771	0.2279	10.0521

ISP FORENSICS - Pocatello Instrument # 59740

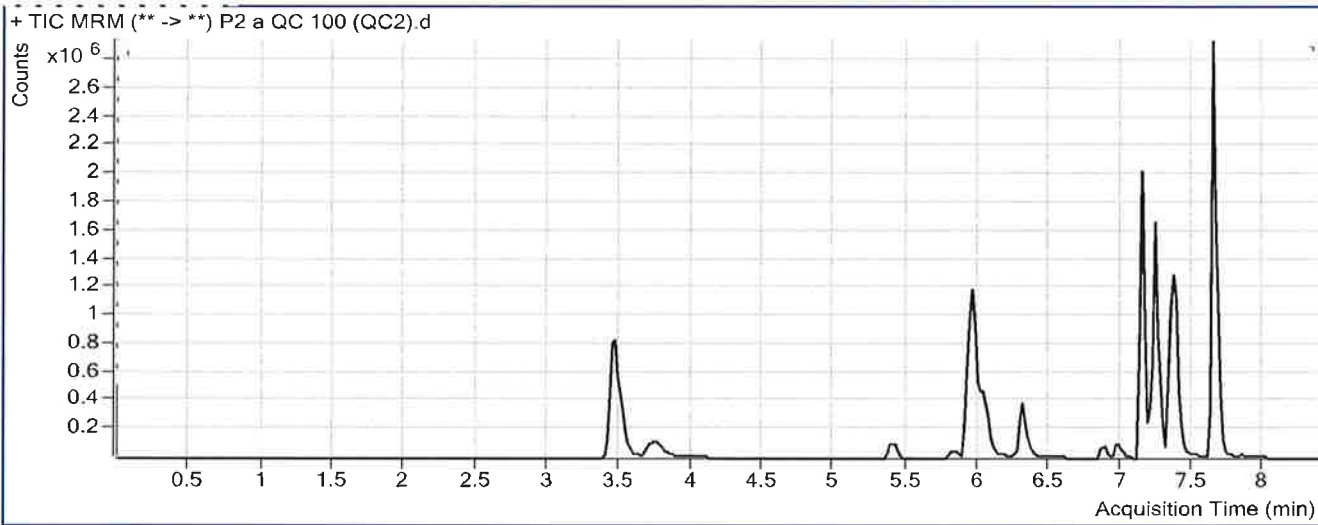
Multi-Drug Confirmatory Analysis Report

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Report Time 1/19/2018 2:09 PM **Reporter Name** ISPUser
Last Calib Update 1/19/2018 2:05 PM **Batch State** Processed

Analysis Info

Acq Time #VALUE! **Data File** P2 a QC 100 (QC2).d
Sample Type QC **Sample Name** a QC 100 (QC2)
Dilution 1 **Acq Method** MDQ Panel 2a 3-12-17-3.m
Position P1-B6 **Sample Info**
Inj Vol -1 **Comment** AM 28-Panel 2

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Pseudoephedrine	Pseudoephedrine-D3	3.476	2761089	1138589	2.4250	97.0488
Levamisole	Benzoylcegonine-d8	3.724	494625	9542	51.8344	105.5607
Benzoylcegonine	Benzoylcegonine-d8	5.413	208548	9542	21.8548	85.8233 <i>not evaluated</i>
Zopiclone	Zopiclone-D4	5.828	105854	45246	2.3395	92.1732
Cocaine	Cocaine-D3	5.912	1305863	534566	2.4428	99.7552
Methylphenidate	Methylphenidate-D4	5.965	1775383	700128	2.5358	99.5734
Metoprolol	Methylphenidate-D4	6.000	306834	700128	0.4383	92.6228
Ondansetron	Carbamazepine-13C6	6.036	893083	1595823	0.5596	110.6902
Mirtazapine	Carbamazepine-13C6	6.303	886571	1595823	0.5556	156.9542
Mitragynine	Doxepin-D3	6.870	195403	106901	1.8279	85.1768
Doxepin	Doxepin-D3	6.981	217926	106901	2.0386	98.1099
Carbamazepine	Carbamazepine-13C6	7.151	2833736	1595823	1.7757	97.5153
Protriptyline	Protriptyline-d3	7.208	286923	130687	2.1955	98.3210
Estazolam	Estazolam-D5	7.242	1425908	737196	1.9342	97.3686
Amitriptyline	Amitriptyline-D3	7.245	409073	80289	5.0950	102.0777
Maprotiline	Nortriptyline-d3	7.245	414555	100924	4.1076	95.7861
Nortriptyline	Nortriptyline-d3	7.249	205075	100924	2.0320	94.3318
alpha-hydroxymidazolam	alpha-hydroxymidazolam-D4	7.336	1178106	620856	1.8976	108.9315
Midazolam	Midazolam-D4	7.358	387316	511313	0.7575	95.9533

ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report Pza QC100

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Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Chlordiazepoxide	Chlordiazepoxide-D5	7.381	579548	652706	0.8879	102.5215
Phenazepam	Phenazepam-D4	7.415	217437	41569	5.2307	110.5316
Prazepam	Prazepam-D5	7.640	3719017	1743330	2.1333	101.8377

ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report

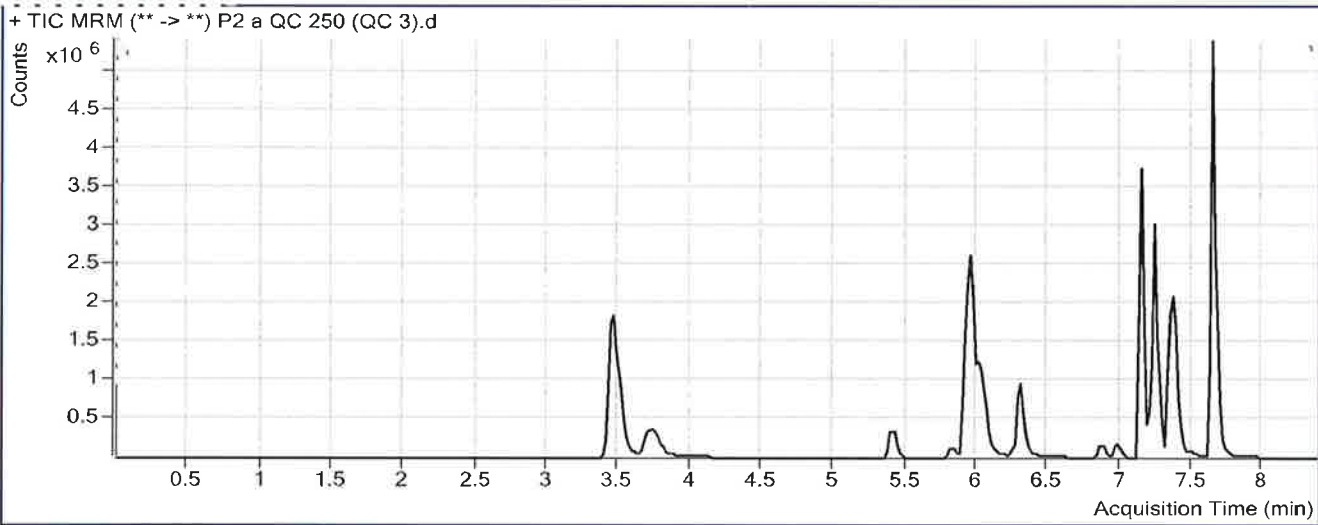
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Report Time 1/19/2018 2:09 PM **Reporter Name** ISPUser
Last Calib Update 1/19/2018 2:05 PM **Batch State** Processed

Analysis Info

Acq Time 2018-01-10 21:54 **Data File** P2 a QC 250 (QC 3).d
Sample Type QC **Sample Name** a QC 250 (QC 3)
Dilution 1 **Acq Method** MDQ Panel 2a 3-12-17-3.m
Position P1-C6 **Sample Info**
Inj Vol -1 **Comment** AM 28-Panel 2

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Pseudoephedrine	Pseudoephedrine-D3	3.476	7404594	1193315	6.2051	246.9444
Levamisole	Benzoylcegonine-d8	3.724	1353218	9747	138.8361	280.8276
Benzoylcegonine	Benzoylcegonine-d8	5.413	718769	9747	73.7435	257.6646 <i>not evaluated</i>
Zopiclone	Zopiclone-D4	5.808	305273	49313	6.1906	241.1889
Cocaine	Cocaine-D3	5.912	3431097	564682	6.0762	247.8807
Methylphenidate	Methylphenidate-D4	5.965	4658111	727858	6.3998	250.6261
Metoprolol	Methylphenidate-D4	5.980	762260	727858	1.0473	220.7354
Ondansetron	Carbamazepine-13C6	6.036	2360790	1475298	1.6002	314.2834
Mirtazapine	Carbamazepine-13C6	6.303	2190056	1475298	1.4845	419.1296
Mitragynine	Doxepin-D3	6.871	402362	83439	4.8222	222.7165
Doxepin	Doxepin-D3	6.981	438581	83439	5.2563	250.9421
Carbamazepine	Carbamazepine-13C6	7.151	6813351	1475298	4.6183	252.6729
Protriptyline	Protriptyline-d3	7.208	527545	94642	5.5741	247.5155
Estazolam	Estazolam-D5	7.242	3219603	653686	4.9253	246.3105
Amitriptyline	Amitriptyline-D3	7.245	764180	65493	11.6682	234.0500
Maprotiline	Nortriptyline-d3	7.245	760381	71917	10.5730	246.9629
Nortriptyline	Nortriptyline-d3	7.249	384374	71917	5.3447	247.4866
alpha-hydroxymidazolam	alpha-hydroxymidazolam-D4	7.336	2520516	550661	4.5773	263.0524
Midazolam	Midazolam-D4	7.358	932690	482616	1.9326	244.0753

ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report

P2a QC 250

P

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Chlordiazepoxide	Chlordiazepoxide-D5	7.381	1270605	511495	2.4841	287.9611
Phenazepam	Phenazepam-D4	7.415	399203	31219	12.7873	272.6084
Prazepam	Prazepam-D5	7.640	7957404	1574455	5.0541	242.5343

ISP FORENSICS - Pocatello Instrument # 59740

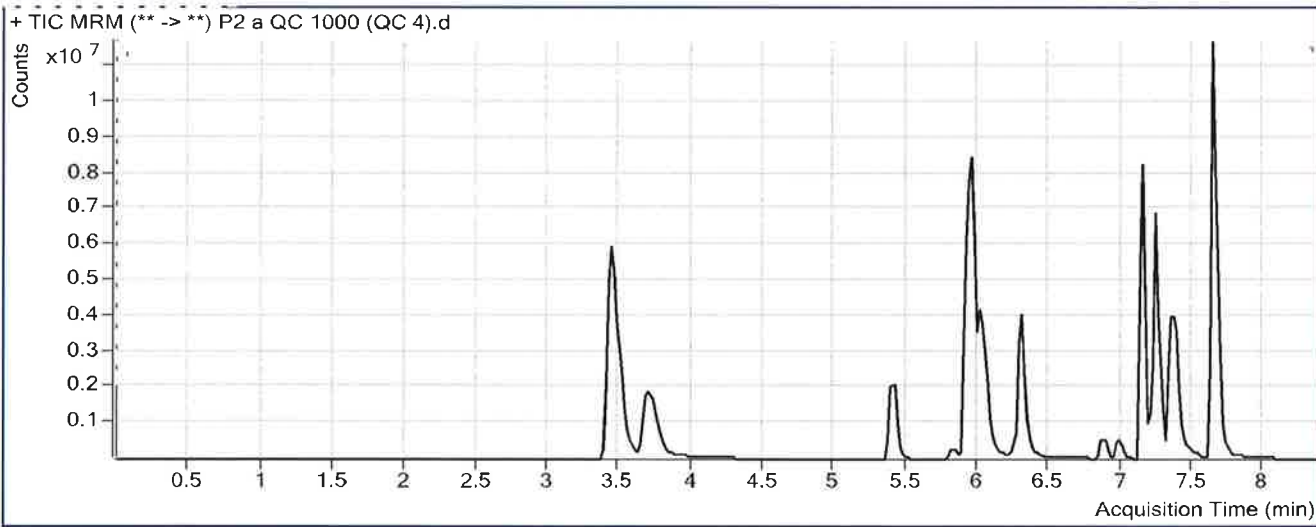
Multi-Drug Confirmatory Analysis Report

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Analysis Time 1/19/2018 2:05 PM **Analyst Name** ISPUser
Report Time 1/19/2018 2:09 PM **Reporter Name** ISPUser
Last Calib Update 1/19/2018 2:05 PM **Batch State** Processed

Analysis Info

Acq Time 2018-01-10 23:28 **Data File** P2 a QC 1000 (QC 4).d
Sample Type QC **Sample Name** a QC 1000 (QC 4)
Dilution 1 **Acq Method** MDQ Panel 2a 3-12-17-3.m
Position P1-D6 **Sample Info**
Inj Vol -1 **Comment** AM 28-Panel 2

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Pseudoephedrine	Pseudoephedrine-D3	3.456	28873458	1111670	25.9730	1030.8317
Levamisole	Benzoyllecgonine-d8	3.704	6027570	10871	554.4508	1118.0921
Benzoyllecgonine	Benzoyllecgonine-d8	5.413	4724882	10871	434.6220	1452.7967 <i>not evaluated</i>
Zopiclone	Zopiclone-D4	5.828	711541	27334	26.0309	1008.9101
Cocaine	Cocaine-D3	5.912	12838100	515588	24.8999	1015.3010
Methylphenidate	Methylphenidate-D4	5.965	15853164	629874	25.1688	984.3602
Metoprolol	Methylphenidate-D4	5.980	2251706	629874	3.5749	752.4433 *
Ondansetron	Carbamazepine-13C6	6.036	9048552	990851	9.1321	1787.9321 *
Mirtazapine	Carbamazepine-13C6	6.303	8754528	990851	8.8354	2493.8032 *
Mitragynine	Doxepin-D3	6.871	1411978	63464	22.2483	1023.1466
Doxepin	Doxepin-D3	6.981	1380709	63464	21.7556	1034.6025
Carbamazepine	Carbamazepine-13C6	7.151	18788137	990851	18.9616	1035.5834
Protriptyline	Protriptyline-d3	7.229	1257289	56120	22.4035	990.6734
Estazolam	Estazolam-D5	7.242	8604542	420032	20.4854	1021.1353
Amitriptyline	Amitriptyline-D3	7.245	1931789	41332	46.7387	938.1752
Maprotiline	Nortriptyline-d3	7.245	2001392	42883	46.6713	1091.0233
Nortriptyline	Nortriptyline-d3	7.249	926109	42883	21.5963	998.8380
alpha-hydroxymidazolam	alpha-hydroxymidazolam-D4	7.336	6074353	365619	16.6139	955.3286
Midazolam	Midazolam-D4	7.358	3126784	386117	8.0980	1021.2454

outside curve range

ISP FORENSICS - Pocatello Instrument # 59740

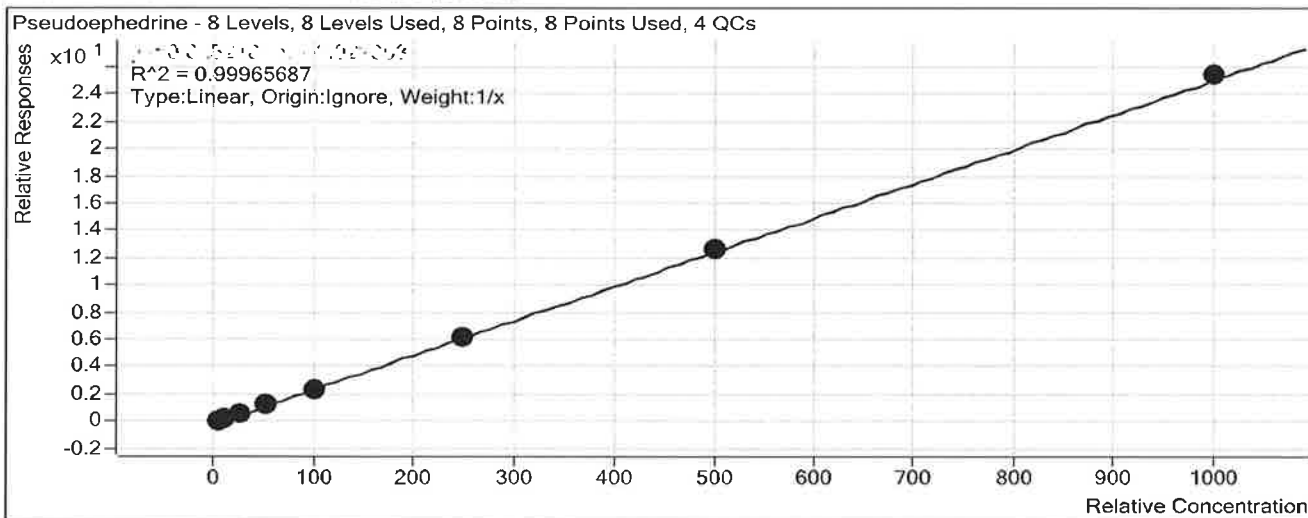
Multi-Drug Confirmatory Analysis Report Pza QC 1000 P

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Chlordiazepoxide	Chlordiazepoxide-D5	7.381	2590783	263137	9.8458	1143.2147
Phenazepam	Phenazepam-D4	7.415	829011	19585	42.3279	906.2085
Prazepam	Prazepam-D5	7.640	23253037	1148061	20.2542	974.7368

ISP FORENSICS Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 2a SP 010918.batch.bin
Last Calib Update 1/19/2018 2:05 PM **Analyst Name** ISP TOX

Target Compound *Pseudoephedrine*
Internal Standard *Pseudoephedrine-D3*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.5	110.6
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.2	101.5
a QC 10 (QC1)	2	<input checked="" type="checkbox"/>	10	10.4	104.1
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	24.2	96.6
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	48.1	96.3
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	95.9	95.9
a QC 100 (QC2)	5	<input checked="" type="checkbox"/>	100	97.0	97.0
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	243.4	97.3
a QC 250 (QC 3)	6	<input checked="" type="checkbox"/>	250	246.9	98.8
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	504.7	100.9
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1008.1	100.8
a QC 1000 (QC 4)	8	<input checked="" type="checkbox"/>	1000	1030.8	103.1

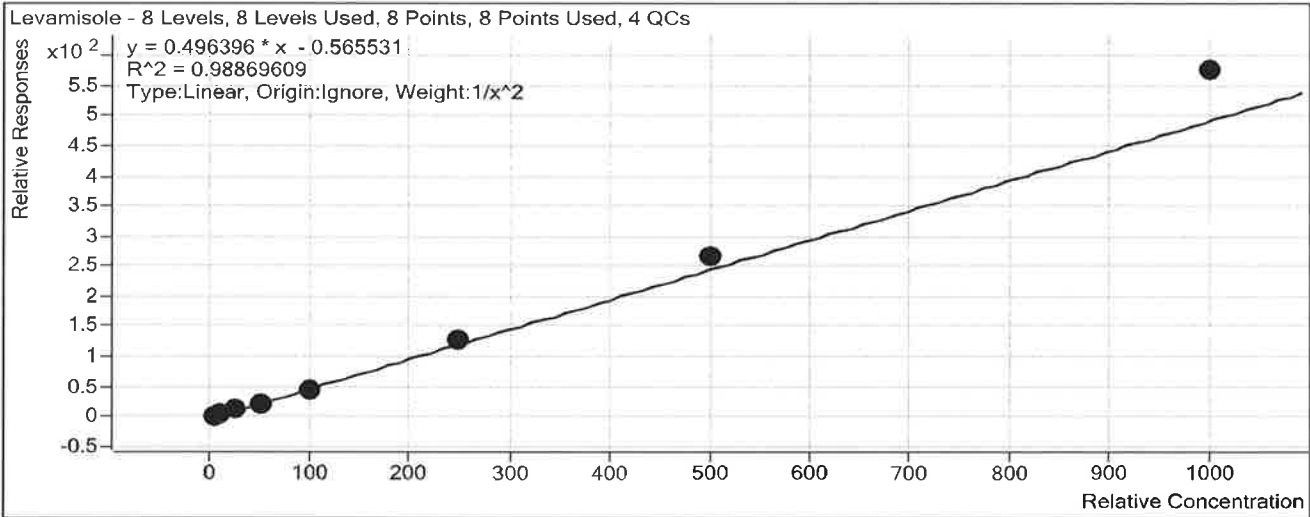
ISP FORENSICS Calibration Curve Report

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Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 2a SP 010918.batch.bin

Last Calib Update 1/19/2018 2:05 PM **Analyst Name** ISP TOX

Target Compound Levamisole
Internal Standard Benzoyllecgonine-d8



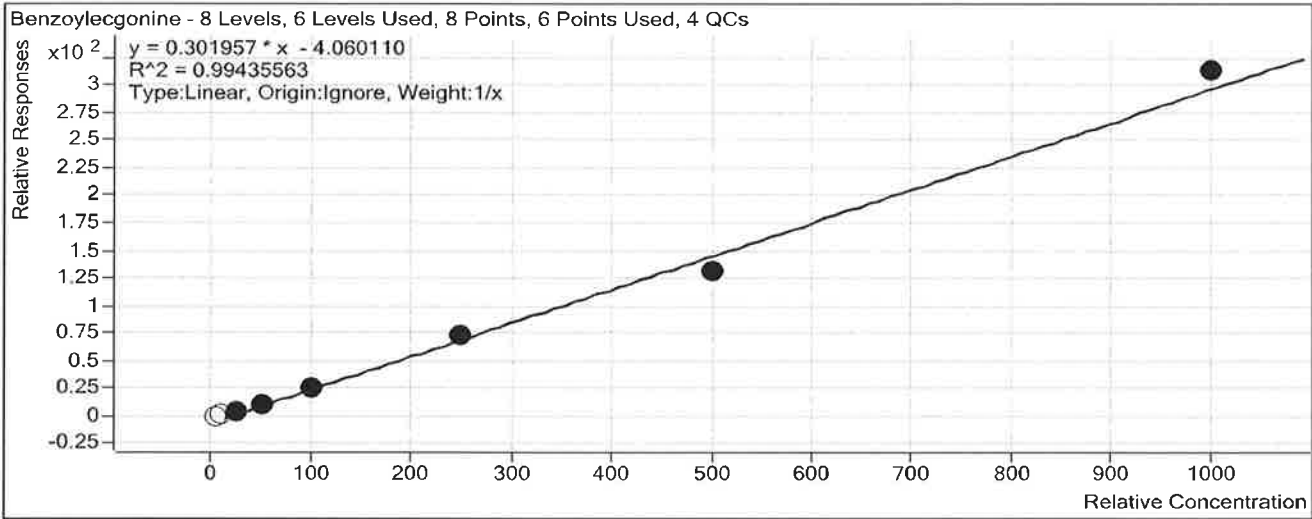
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.2	104.4
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.7	97.1
a QC 10 (QC1)	2	<input checked="" type="checkbox"/>	10	9.3	93.2
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	23.2	92.6
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	43.7	87.3
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	93.3	93.3
a QC 100 (QC2)	5	<input checked="" type="checkbox"/>	100	105.6	105.6
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	255.1	102.0
a QC 250 (QC 3)	6	<input checked="" type="checkbox"/>	250	280.8	112.3
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	535.8	107.2
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1161.2	116.1
a QC 1000 (QC 4)	8	<input checked="" type="checkbox"/>	1000	1118.1	111.8

ISP FORENSICS Calibration Curve Report



Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 2a SP 010918.batch.bin
Last Calib Update 1/19/2018 2:05 PM **Analyst Name** ISP TOX

Target Compound *Benzoylecgonine*
Internal Standard *Benzoylecgonine-d8*



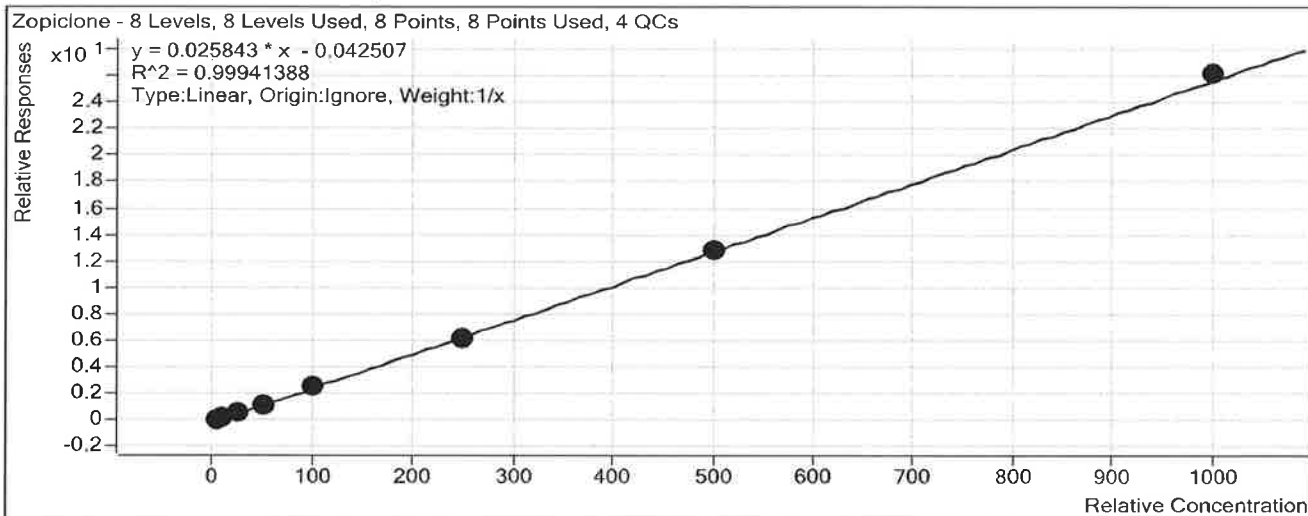
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input type="checkbox"/>	5	15.7	314.0
a cal 2-10ng	2	<input type="checkbox"/>	10	19.2	191.6
a QC 10 (QC1)	2	<input checked="" type="checkbox"/>	10	19.9	198.7
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	27.7	110.9
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	46.8	93.6
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	98.9	98.9
a QC 100 (QC2)	5	<input checked="" type="checkbox"/>	100	85.8	85.8
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	255.2	102.1
a QC 250 (QC 3)	6	<input checked="" type="checkbox"/>	250	257.7	103.1
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	448.3	89.7
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1048.0	104.8
a QC 1000 (QC 4)	8	<input type="checkbox"/>	1000	1452.8	145.3

Not Evaluated.

ISP FORENSICS Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 2a SP 010918.batch.bin
Last Calib Update 1/19/2018 2:05 PM **Analyst Name** ISP TOX

Target Compound Zopiclone
Internal Standard Zopiclone-D4

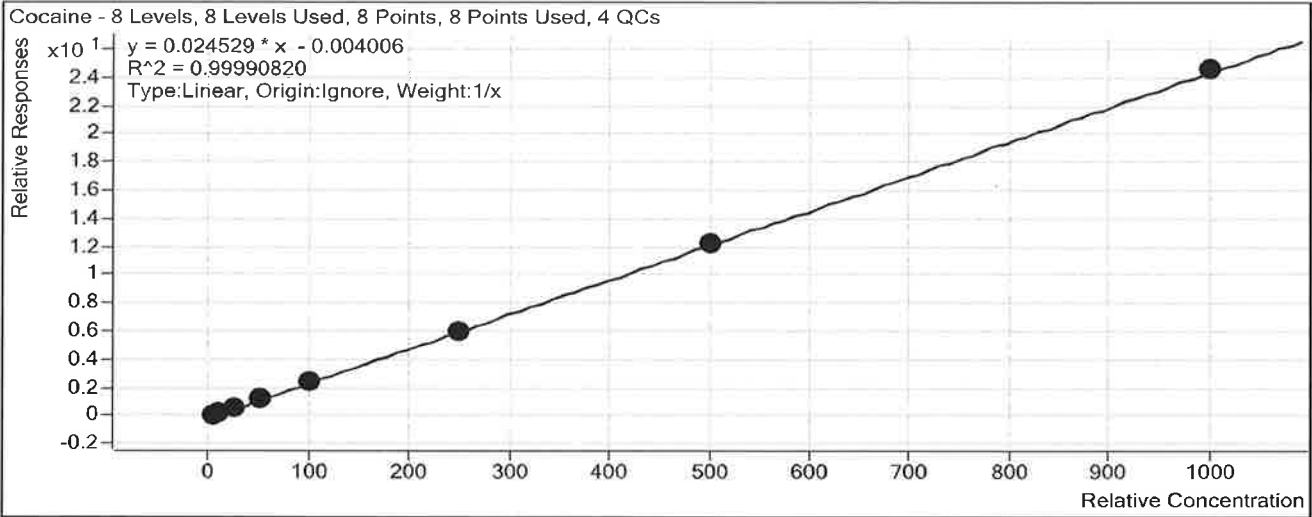


Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.8	116.3
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.0	100.0
a QC 10 (QC1)	2	<input checked="" type="checkbox"/>	10	10.2	101.6
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	22.8	91.2
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	47.9	95.7
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	99.4	99.4
a QC 100 (QC2)	5	<input checked="" type="checkbox"/>	100	92.2	92.2
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	239.5	95.8
a QC 250 (QC 3)	6	<input checked="" type="checkbox"/>	250	241.2	96.5
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	502.1	100.4
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1012.7	101.3
a QC 1000 (QC 4)	8	<input checked="" type="checkbox"/>	1000	1008.9	100.9

ISP Forensics Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 2a SP 010918.batch.bin
Last Calib Update 1/19/2018 2:05 PM **Analyst Name** ISP TOX

Target Compound Cocaine
Internal Standard Cocaine-D3



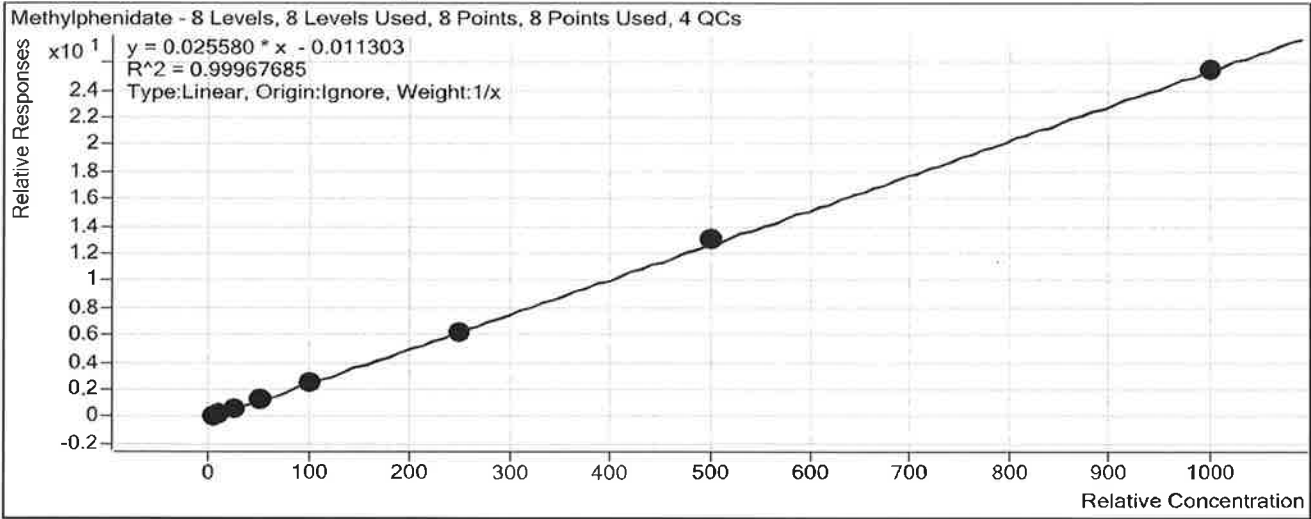
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.2	104.3
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.1	101.1
a QC 10 (QC1)	2	<input checked="" type="checkbox"/>	10	10.2	101.9
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	24.5	98.0
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	48.8	97.6
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	99.9	99.9
a QC 100 (QC2)	5	<input checked="" type="checkbox"/>	100	99.8	99.8
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	247.9	99.2
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	503.5	100.7
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1002.5	100.3
a QC 1000 (QC 4)	8	<input checked="" type="checkbox"/>	1000	1015.3	101.5

ISP FORENSICS Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 2a SP 010918.batch.bin

Last Calib Update 1/19/2018 2:05 PM **Analyst Name** ISP TOX

Target Compound *Methylphenidate*
Internal Standard *Methylphenidate-D4*

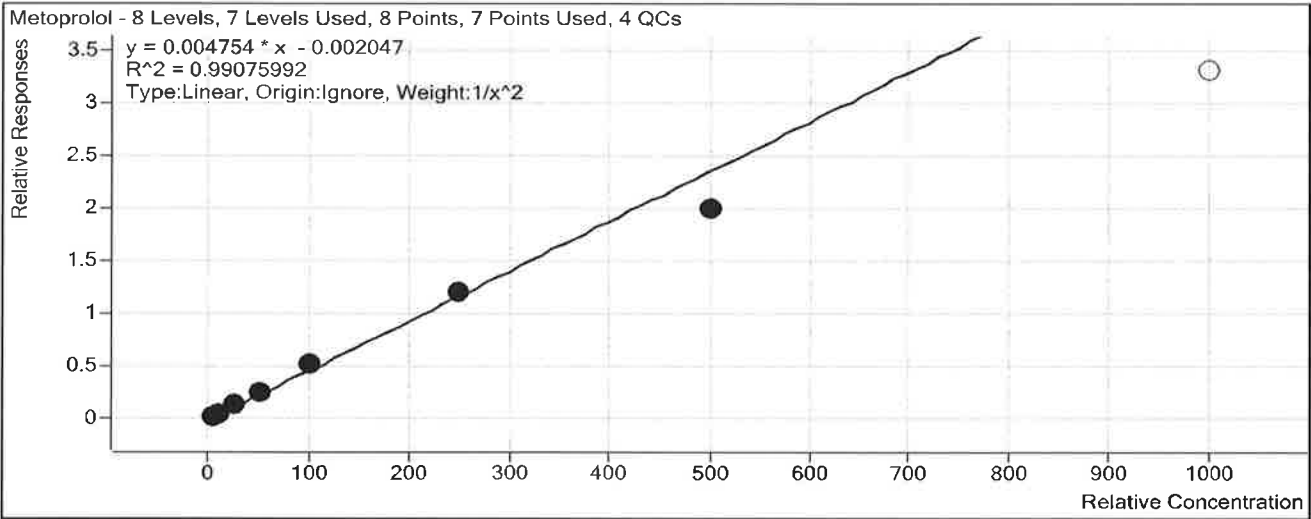


Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.2	103.4
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.0	100.2
a QC 10 (QC1)	2	<input checked="" type="checkbox"/>	10	10.0	99.9
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	24.8	99.1
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	49.5	99.0
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	98.9	98.9
a QC 100 (QC2)	5	<input checked="" type="checkbox"/>	100	99.6	99.6
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	243.3	97.3
a QC 250 (QC 3)	6	<input checked="" type="checkbox"/>	250	250.6	100.3
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	513.1	102.6
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	995.2	99.5
a QC 1000 (QC 4)	8	<input checked="" type="checkbox"/>	1000	984.4	98.4

ISP FORENSICS Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 2a SP 010918.batch.bin
Last Calib Update 1/19/2018 2:05 PM **Analyst Name** ISP TOX

Target Compound *Metoprolol*
Internal Standard *Methylphenidate-D4*

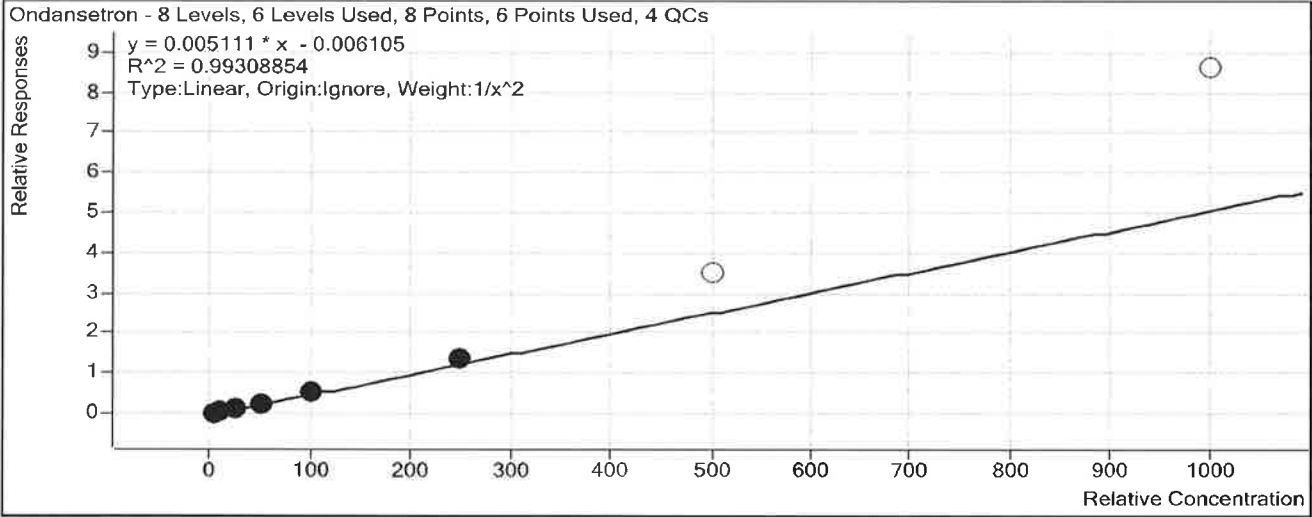


Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	4.9	99.0
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.0	100.1
a QC 10 (QC1)	2	<input checked="" type="checkbox"/>	10	9.9	99.0
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	25.0	100.2
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	52.8	105.5
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	110.8	110.8
a QC 100 (QC2)	5	<input checked="" type="checkbox"/>	100	92.6	92.6
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	250.7	100.3
a QC 250 (QC 3)	6	<input checked="" type="checkbox"/>	250	220.7	88.3
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	420.7	84.1
a cal 8-1000ng	8	<input type="checkbox"/>	1000	696.3	69.6
a QC 1000 (QC 4)	8	<input type="checkbox"/>	1000	752.4	75.2

ISP FORENSICS Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 2a SP 010918.batch.bin
Last Calib Update 1/19/2018 2:05 PM **Analyst Name** ISP TOX

Target Compound Ondansetron
Internal Standard Carbamazepine-13C6



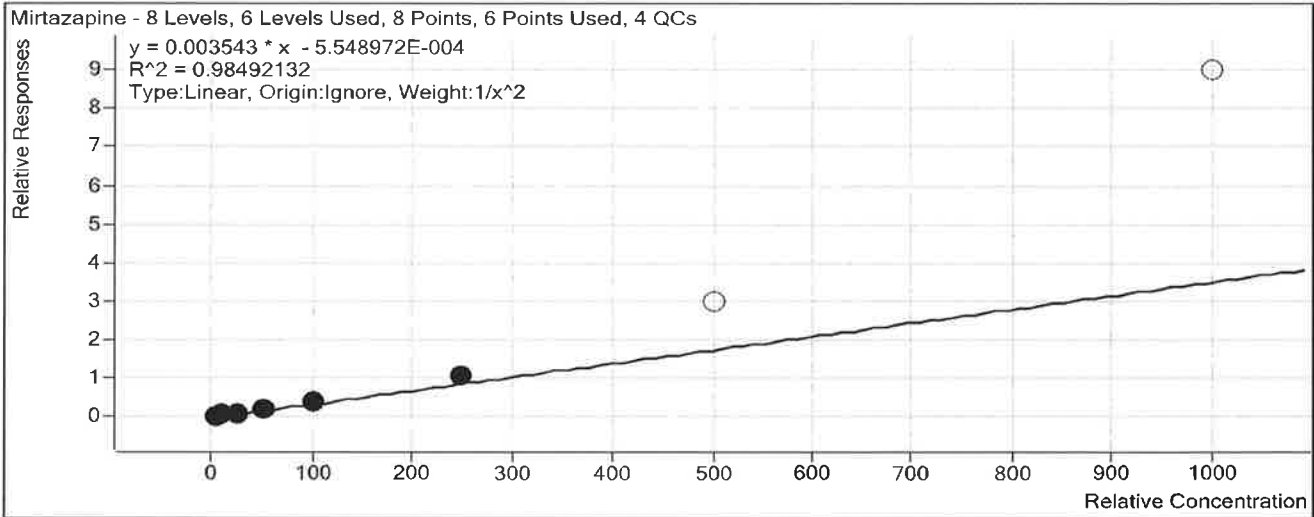
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.0	100.7
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.3	102.8
a QC 10 (QC1)	2	<input checked="" type="checkbox"/>	10	9.5	94.7
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	22.8	91.3
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	46.5	93.0
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	102.7	102.7
a QC 100 (QC2)	5	<input checked="" type="checkbox"/>	100	110.7	110.7
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	273.8	109.5
a QC 250 (QC 3)	6	<input checked="" type="checkbox"/>	250	314.3	125.7
a cal 7-500ng	7	<input type="checkbox"/>	500	682.7	136.5
a cal 8-1000ng	8	<input type="checkbox"/>	1000	1684.6	168.5
a QC 1000 (QC 4)	8	<input type="checkbox"/>	1000	1787.9	178.8

ISP FORENSICS Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 2a SP 010918.batch.bin
Last Calib Update 1/19/2018 2:05 PM **Analyst Name** ISP TOX

S

Target Compound *Mirtazapine*
Internal Standard *Carbamazepine-13C6*



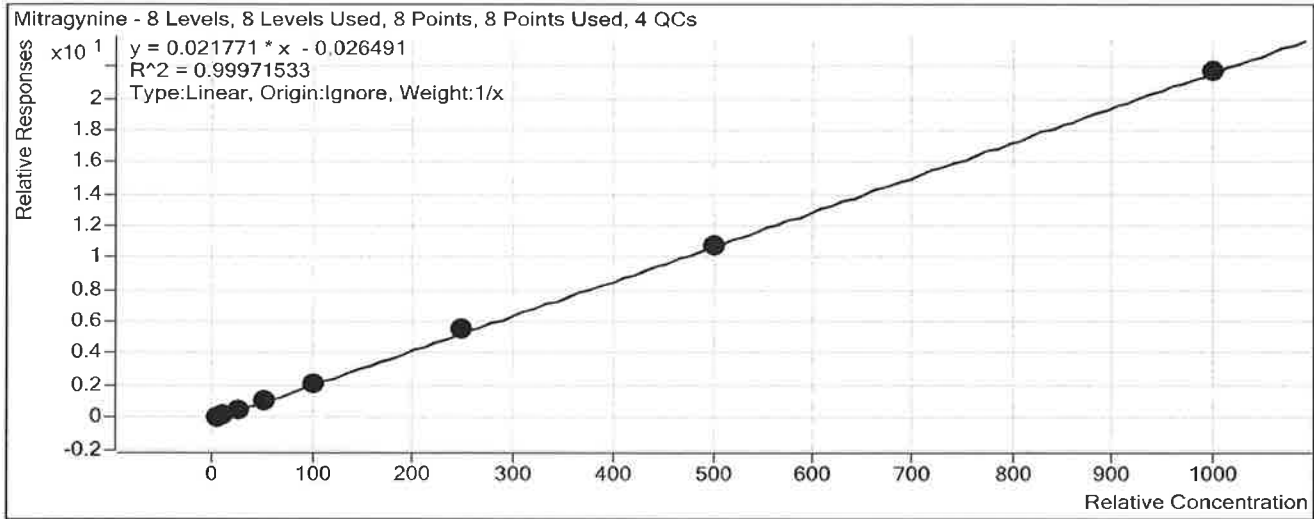
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.1	101.9
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.2	102.3
a QC 10 (QC1)	2	<input checked="" type="checkbox"/>	10	9.9	99.5
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	21.7	86.7
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	46.1	92.1
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	100.8	100.8
a QC 100 (QC2)	5	<input checked="" type="checkbox"/>	100	157.0	157.0
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	290.3	116.1
a QC 250 (QC 3)	6	<input checked="" type="checkbox"/>	250	419.1	167.7
a cal 7-500ng	7	<input type="checkbox"/>	500	843.4	168.7
a cal 8-1000ng	8	<input type="checkbox"/>	1000	2539.5	254.0
a QC 1000 (QC 4)	8	<input type="checkbox"/>	1000	2493.8	249.4

ISP FORENSICS Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 2a SP 010918.batch.bin
Last Calib Update 1/19/2018 2:05 PM **Analyst Name** ISP TOX

Target Compound *Mitragynine*
Internal Standard *Doxepin-D3*

D



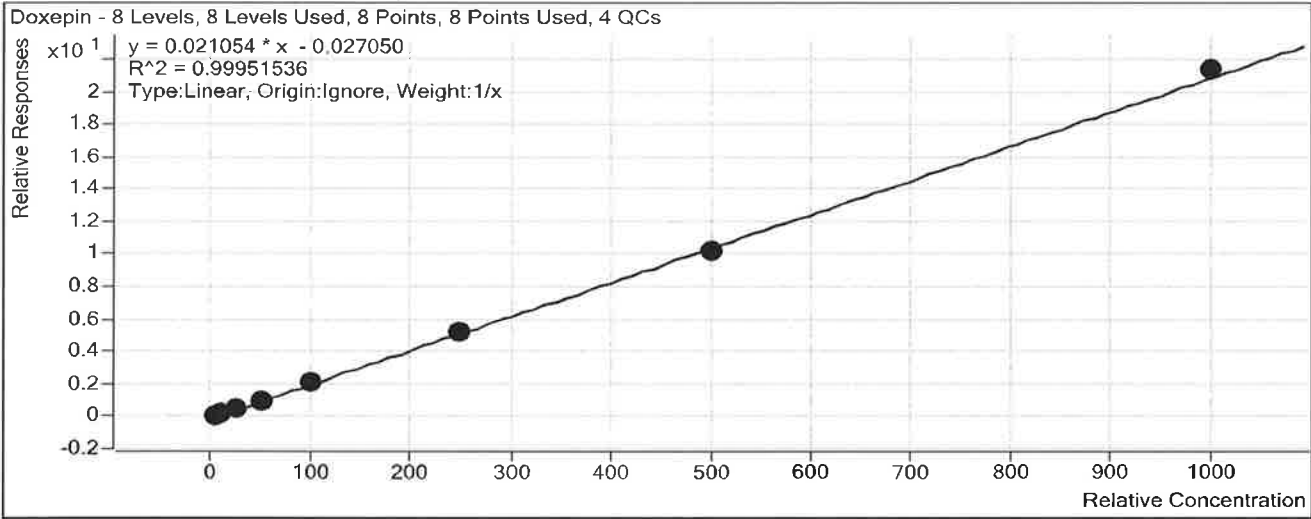
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.3	105.4
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.1	91.1
a QC 10 (QC1)	2	<input checked="" type="checkbox"/>	10	9.7	97.2
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	26.0	104.0
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	49.8	99.6
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	97.5	97.5
a QC 100 (QC2)	5	<input checked="" type="checkbox"/>	100	85.2	85.2
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	258.4	103.3
a QC 250 (QC 3)	6	<input checked="" type="checkbox"/>	250	222.7	89.1
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	496.8	99.4
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	997.2	99.7
a QC 1000 (QC 4)	8	<input checked="" type="checkbox"/>	1000	1023.1	102.3

ISP FORENSICS Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 2a SP 010918.batch.bin

Last Calib Update 1/19/2018 2:05 PM **Analyst Name** ISP TOX

Target Compound Doxepin
Internal Standard Doxepin-D3



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.7	113.5
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.1	100.6
a QC 10 (QC1)	2	<input checked="" type="checkbox"/>	10	10.6	106.1
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	23.2	92.8
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	47.9	95.8
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	98.1	98.1
a QC 100 (QC2)	5	<input checked="" type="checkbox"/>	100	98.1	98.1
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	249.4	99.7
a QC 250 (QC 3)	6	<input checked="" type="checkbox"/>	250	250.9	100.4
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	489.1	97.8
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1016.6	101.7
a QC 1000 (QC 4)	8	<input checked="" type="checkbox"/>	1000	1034.6	103.5

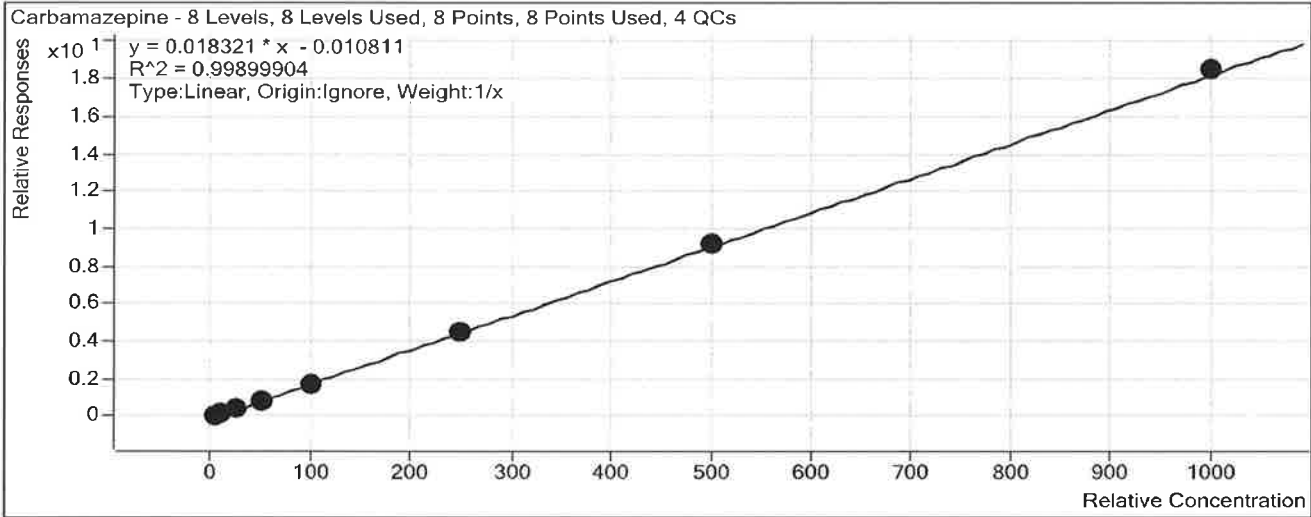
ISP FORENSICS Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 2a SP 010918.batch.bin

Last Calib Update 1/19/2018 2:05 PM

Analyst Name ISP TOX

Target Compound Carbamazepine
Internal Standard Carbamazepine-13C6

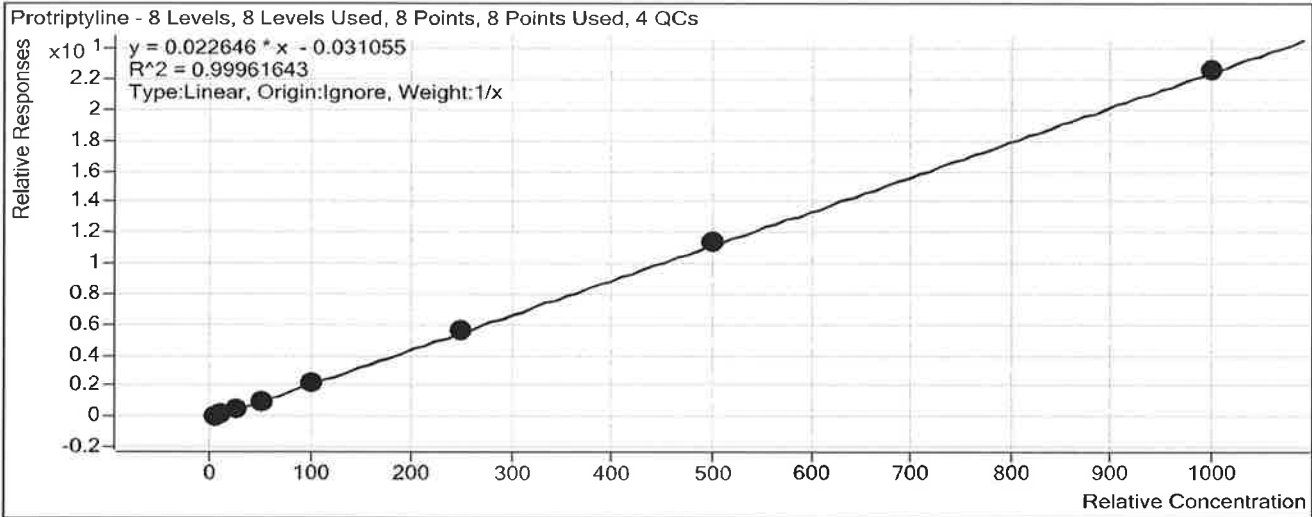


Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.4	108.0
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	11.2	112.4
a QC 10 (QC1)	2	<input checked="" type="checkbox"/>	10	9.5	94.9
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	24.4	97.6
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	45.1	90.2
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	90.5	90.5
a QC 100 (QC2)	5	<input checked="" type="checkbox"/>	100	97.5	97.5
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	247.8	99.1
a QC 250 (QC 3)	6	<input checked="" type="checkbox"/>	250	252.7	101.1
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	506.5	101.3
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	1035.6	103.6

ISP FORENSICS Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 2a SP 010918.batch.bin
Last Calib Update 1/19/2018 2:05 PM **Analyst Name** ISP TOX

Target Compound Protriptyline
Internal Standard Protriptyline-d3



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.4	107.6
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.8	107.8
a QC 10 (QC1)	2	<input checked="" type="checkbox"/>	10	11.0	110.3
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	22.7	90.9
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	46.2	92.3
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	100.6	100.6
a QC 100 (QC2)	5	<input checked="" type="checkbox"/>	100	98.3	98.3
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	249.2	99.7
a QC 250 (QC 3)	6	<input checked="" type="checkbox"/>	250	247.5	99.0
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	506.4	101.3
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	998.8	99.9
a QC 1000 (QC 4)	8	<input checked="" type="checkbox"/>	1000	990.7	99.1

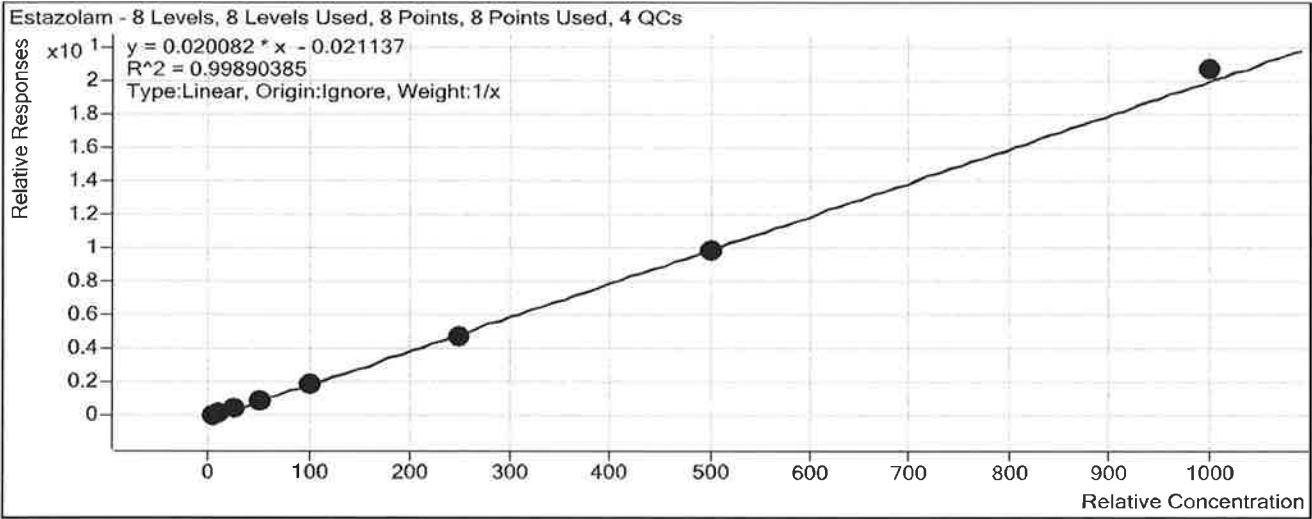
ISP Forensics Calibration Curve Report



Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 2a SP 010918.batch.bin

Last Calib Update 1/19/2018 2:05 PM **Analyst Name** ISP TOX

Target Compound *Estazolam*
Internal Standard *Estazolam-D5*

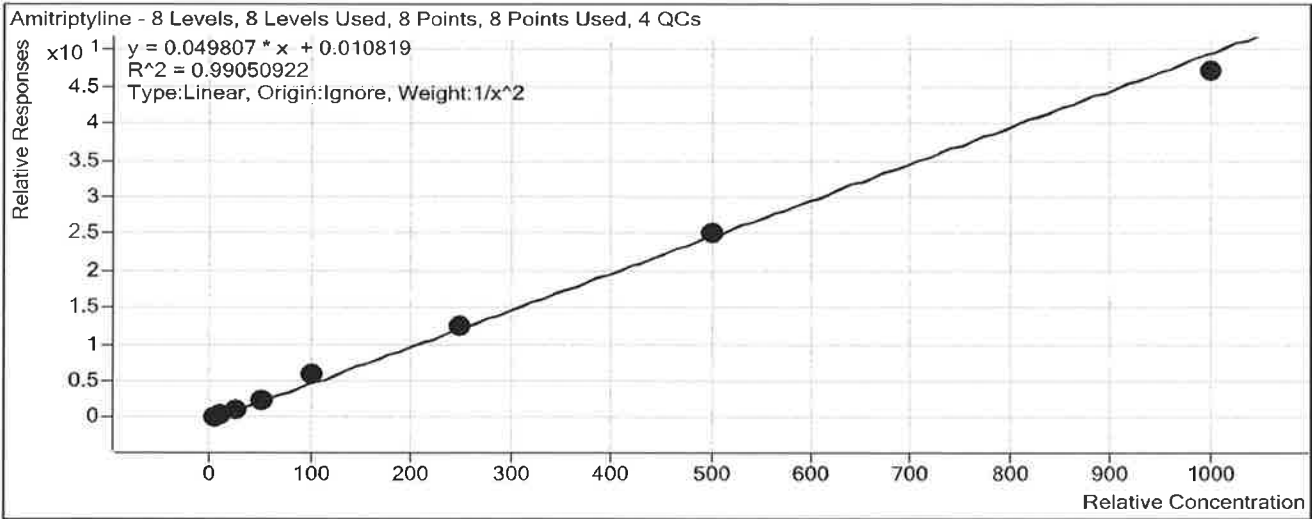


Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.5	109.3
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.6	106.4
a QC 10 (QC1)	2	<input checked="" type="checkbox"/>	10	10.8	108.2
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	24.6	98.3
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	47.4	94.9
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	94.7	94.7
a QC 100 (QC2)	5	<input checked="" type="checkbox"/>	100	97.4	97.4
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	238.0	95.2
a QC 250 (QC 3)	6	<input checked="" type="checkbox"/>	250	246.3	98.5
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	491.9	98.4
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1027.2	102.7
a QC 1000 (QC 4)	8	<input checked="" type="checkbox"/>	1000	1021.1	102.1

ISP FORENSICS Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 2a SP 010918.batch.bin
Last Calib Update 1/19/2018 2:05 PM **Analyst Name** ISP TOX

Target Compound Amitriptyline
Internal Standard Amitriptyline-D3

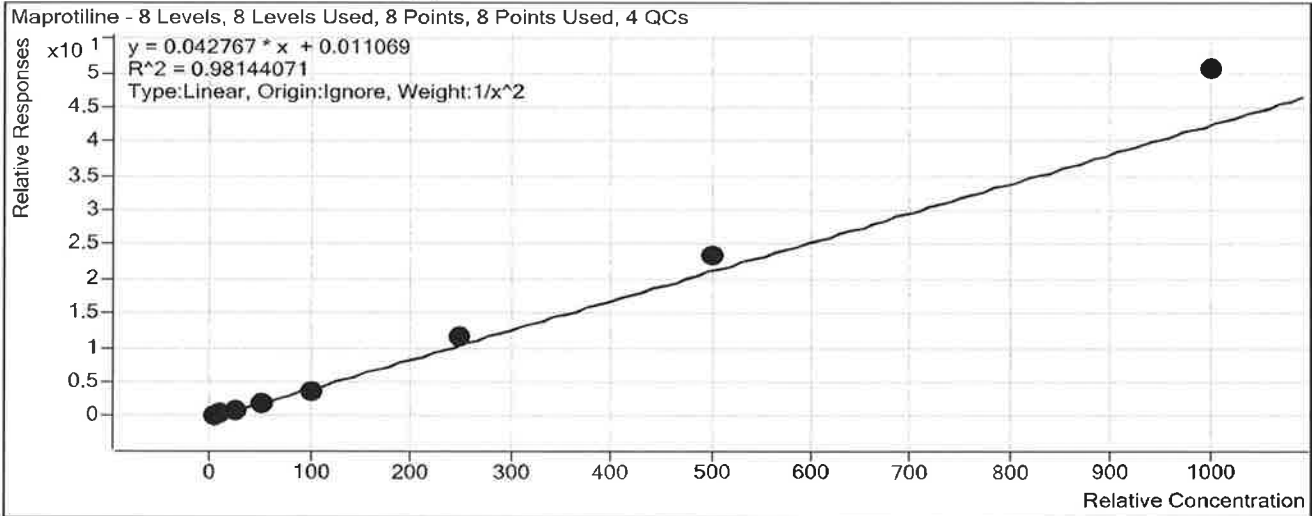


Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.1	102.1
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.8	98.0
a QC 10 (QC1)	2	<input checked="" type="checkbox"/>	10	9.6	95.7
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	23.4	93.7
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	46.3	92.6
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	119.3	119.3
a QC 100 (QC2)	5	<input checked="" type="checkbox"/>	100	102.1	102.1
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	249.5	99.8
a QC 250 (QC 3)	6	<input checked="" type="checkbox"/>	250	234.0	93.6
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	500.7	100.1
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	944.1	94.4
a QC 1000 (QC 4)	8	<input checked="" type="checkbox"/>	1000	938.2	93.8

ISP Forensics Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 2a SP 010918.batch.bin
Last Calib Update 1/19/2018 2:05 PM **Analyst Name** ISP TOX

Target Compound *Maprotiline*
Internal Standard *Nortriptyline-d3*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.3	106.4
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.6	95.6
a QC 10 (QC1)	2	<input checked="" type="checkbox"/>	10	8.1	81.0
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	21.1	84.4
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	46.3	92.6
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	86.5	86.5
a QC 100 (QC2)	5	<input checked="" type="checkbox"/>	100	95.8	95.8
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	269.5	107.8
a QC 250 (QC 3)	6	<input checked="" type="checkbox"/>	250	247.0	98.8
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	544.1	108.8
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1178.6	117.9
a QC 1000 (QC 4)	8	<input checked="" type="checkbox"/>	1000	1091.0	109.1

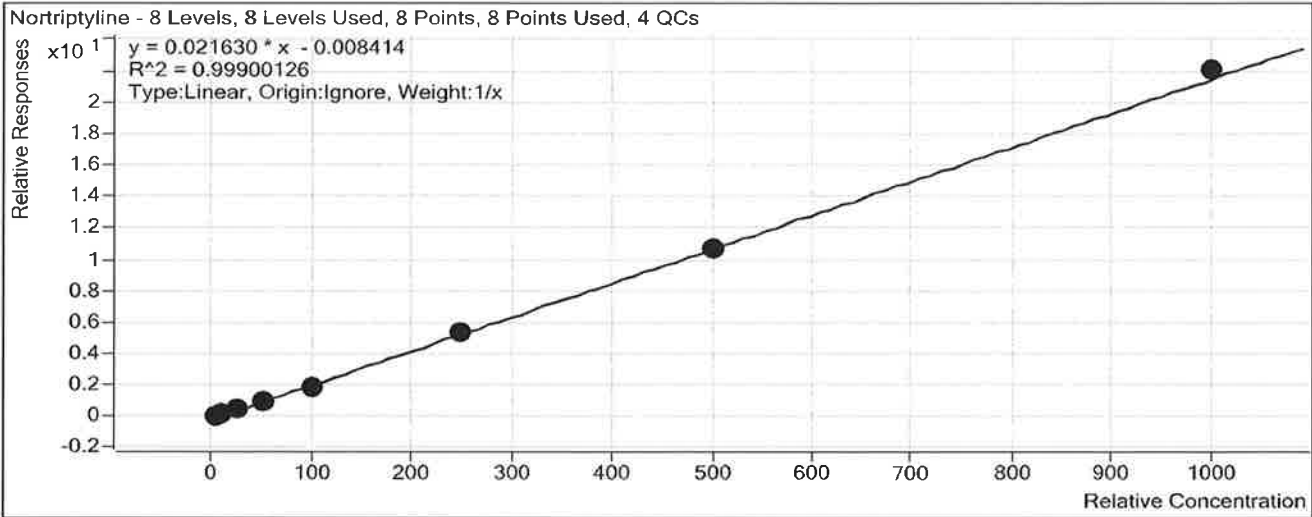
ISP FORENSICS

Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 2a SP 010918.batch.bin

Last Calib Update 1/19/2018 2:05 PM **Analyst Name** ISP TOX

Target Compound *Nortriptyline*
Internal Standard *Nortriptyline-d3*

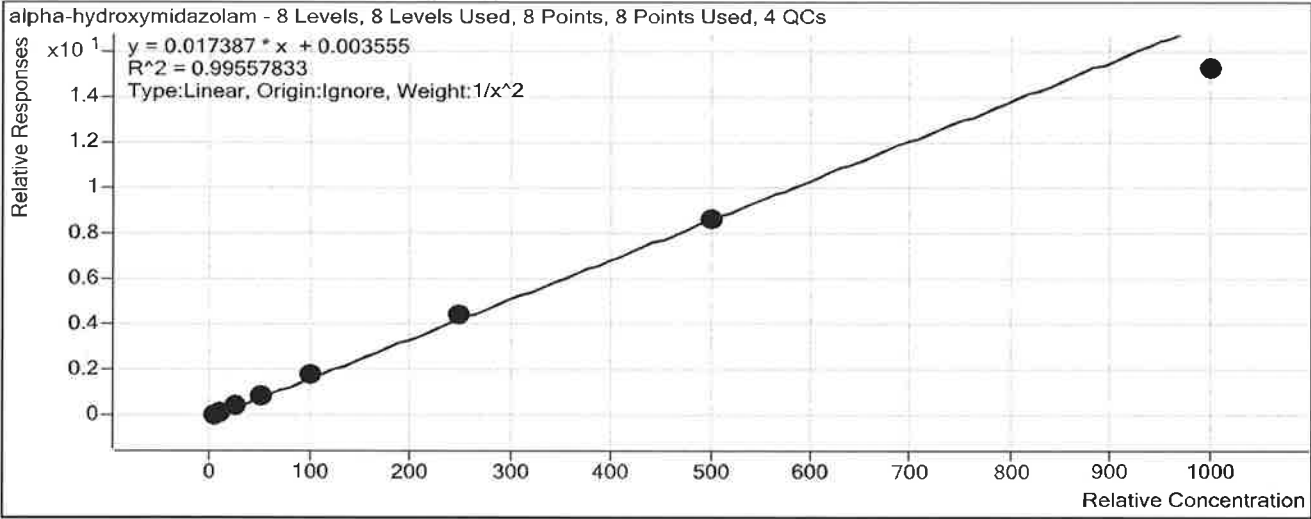


Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.5	109.7
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.7	107.4
a QC 10 (QC1)	2	<input checked="" type="checkbox"/>	10	10.5	104.8
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	24.7	98.8
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	47.3	94.7
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	89.5	89.5
a QC 100 (QC2)	5	<input checked="" type="checkbox"/>	100	94.3	94.3
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	246.3	98.5
a QC 250 (QC 3)	6	<input checked="" type="checkbox"/>	250	247.5	99.0
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	496.9	99.4
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1018.9	101.9
a QC 1000 (QC 4)	8	<input checked="" type="checkbox"/>	1000	998.8	99.9

ISP FORENSICS Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 2a SP 010918.batch.bin
Last Calib Update 1/19/2018 2:05 PM **Analyst Name** ISP TOX

Target Compound *alpha-hydroxymidazolam*
Internal Standard *alpha-hydroxymidazolam-D4*



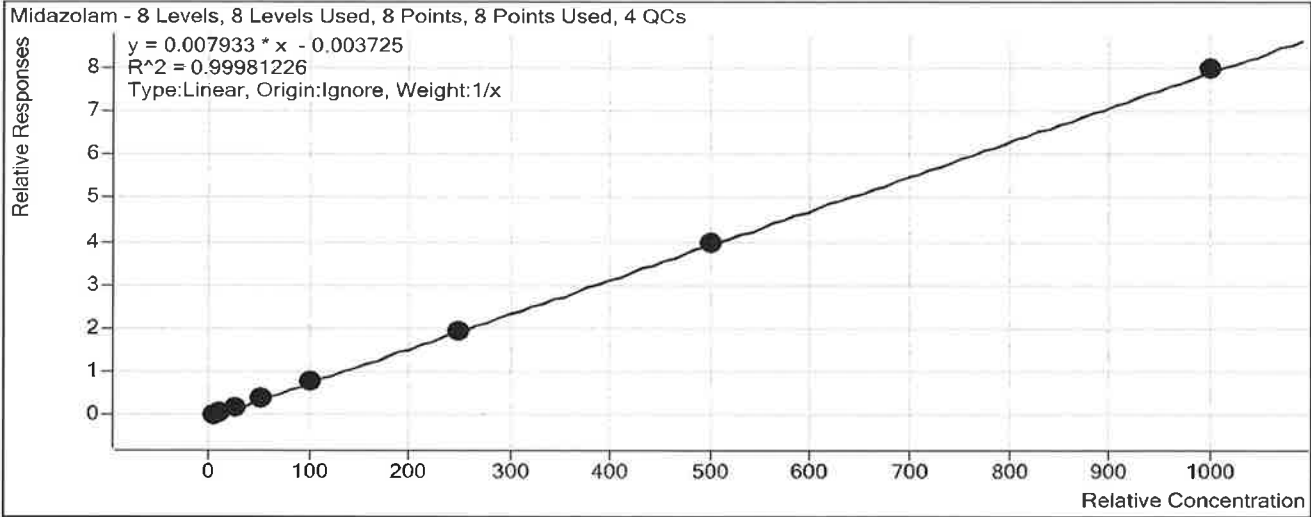
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	4.9	97.1
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.4	103.7
a QC 10 (QC1)	2	<input checked="" type="checkbox"/>	10	11.1	110.6
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	25.5	102.0
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	52.1	104.3
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	105.3	105.3
a QC 100 (QC2)	5	<input checked="" type="checkbox"/>	100	108.9	108.9
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	252.5	101.0
a QC 250 (QC 3)	6	<input checked="" type="checkbox"/>	250	263.1	105.2
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	496.2	99.2
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	873.6	87.4
a QC 1000 (QC 4)	8	<input checked="" type="checkbox"/>	1000	955.3	95.5

ISP FORENSICS Calibration Curve Report

P

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 2a SP 010918.batch.bin
Last Calib Update 1/19/2018 2:05 PM **Analyst Name** ISP TOX

Target Compound Midazolam
Internal Standard Midazolam-D4



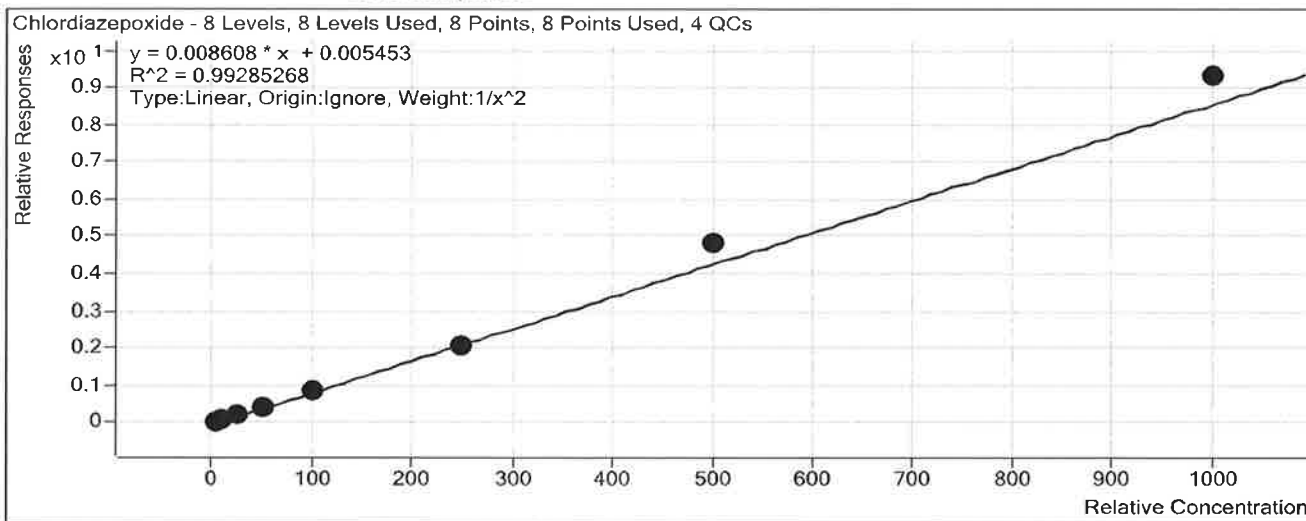
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.4	108.9
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.3	102.6
a QC 10 (QC1)	2	<input checked="" type="checkbox"/>	10	9.6	96.2
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	23.0	91.8
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	49.0	98.0
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	99.2	99.2
a QC 100 (QC2)	5	<input checked="" type="checkbox"/>	100	96.0	96.0
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	246.1	98.5
a QC 250 (QC 3)	6	<input checked="" type="checkbox"/>	250	244.1	97.6
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	503.0	100.6
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1004.0	100.4
a QC 1000 (QC 4)	8	<input checked="" type="checkbox"/>	1000	1021.2	102.1

ISP FORENSICS Calibration Curve Report

R

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 2a SP 010918.batch.bin
Last Calib Update 1/19/2018 2:05 PM **Analyst Name** ISP TOX

Target Compound *Chlordiazepoxide*
Internal Standard *Chlordiazepoxide-D5*

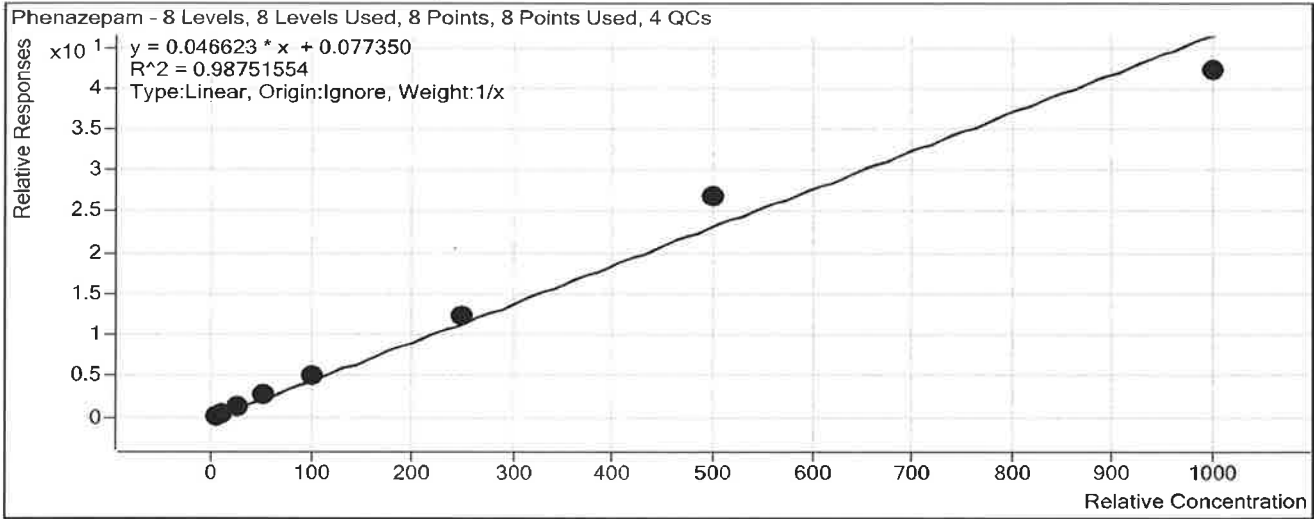


Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.2	104.5
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.5	95.0
a QC 10 (QC1)	2	<input checked="" type="checkbox"/>	10	9.6	96.1
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	23.1	92.4
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	48.7	97.4
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	95.4	95.4
a QC 100 (QC2)	5	<input checked="" type="checkbox"/>	100	102.5	102.5
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	237.0	94.8
a QC 250 (QC 3)	6	<input checked="" type="checkbox"/>	250	288.0	115.2
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	562.9	112.6
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1079.8	108.0
a QC 1000 (QC 4)	8	<input checked="" type="checkbox"/>	1000	1143.2	114.3

ISP FORENSICS Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 2a SP 010918.batch.bin
Last Calib Update 1/19/2018 2:05 PM **Analyst Name** ISP TOX

Target Compound Phenazepam
Internal Standard Phenazepam-D4



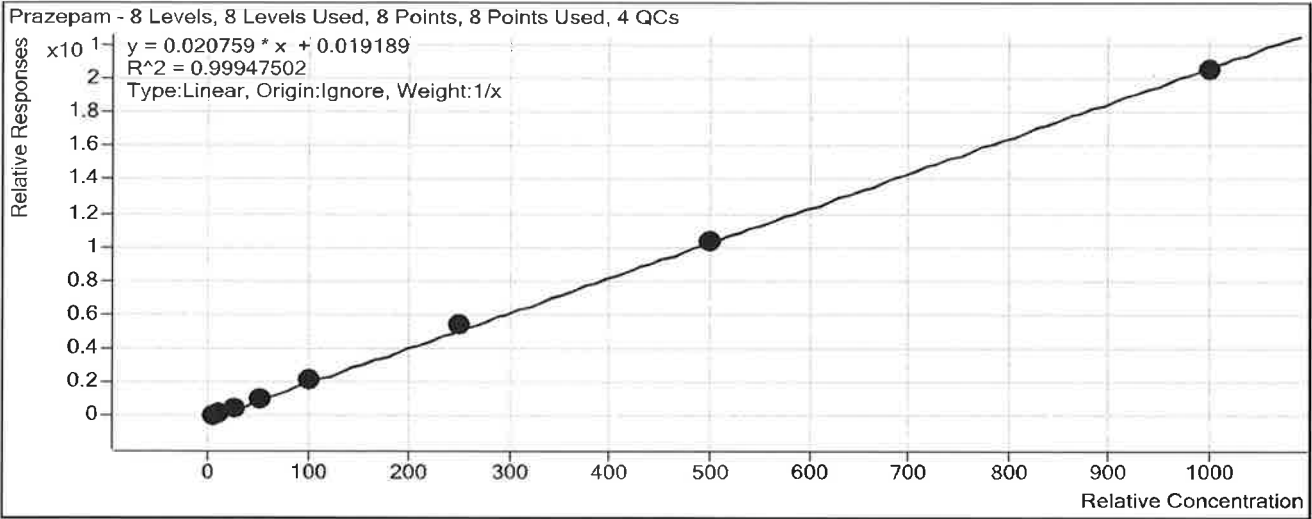
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	4.1	81.9
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	8.8	88.4
a QC 10 (QC1)	2	<input checked="" type="checkbox"/>	10	9.1	91.5
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	25.1	100.4
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	54.5	109.0
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	110.4	110.4
a QC 100 (QC2)	5	<input checked="" type="checkbox"/>	100	110.5	110.5
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	263.1	105.2
a QC 250 (QC 3)	6	<input checked="" type="checkbox"/>	250	272.6	109.0
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	571.8	114.4
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	902.1	90.2
a QC 1000 (QC 4)	8	<input type="checkbox"/>	1000	906.2	90.6

ISP FORENSICS Calibration Curve Report



Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 2a SP 010918.batch.bin
Last Calib Update 1/19/2018 2:05 PM **Analyst Name** ISP TOX

Target Compound Prazepam
Internal Standard Prazepam-D5



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	4.4	88.5
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.9	99.3
a QC 10 (QC1)	2	<input checked="" type="checkbox"/>	10	10.1	100.5
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	25.0	100.0
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	52.6	105.2
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	105.6	105.6
a QC 100 (QC2)	5	<input checked="" type="checkbox"/>	100	101.8	101.8
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	257.7	103.1
a QC 250 (QC 3)	6	<input checked="" type="checkbox"/>	250	242.5	97.0
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	497.6	99.5
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	987.1	98.7
a QC 1000 (QC 4)	8	<input checked="" type="checkbox"/>	1000	974.7	97.5

ISP FORENSICS - Pocatello Instrument # 59740

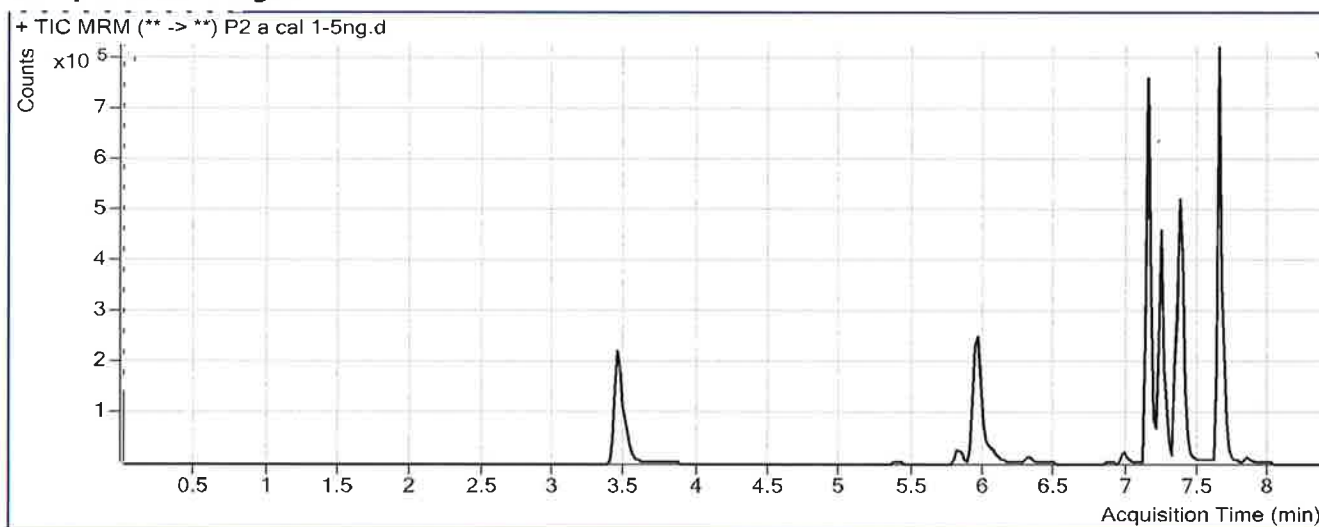
Multi-Drug Confirmatory Analysis Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 2a SP 010918.t
Analysis Time 1/19/2018 2:05 PM **Analyst Name** ISPUser
Report Time 1/19/2018 2:07 PM **Reporter Name** ISPUser
Last Calib Update 1/19/2018 2:05 PM **Batch State** Processed

Analysis Info

Acq Time 2018-01-10 12:59 **Data File** P2 a cal 1-5ng.d
Sample Type Calibration **Sample Name** a cal 1-5ng
Dilution 1 **Acq Method** MDQ Panel 2a 3-12-17-3.m
Position P1-A5 **Sample Info**
Inj Vol -1 **Comment** AM 28-Panel 2

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Pseudoephedrine	Pseudoephedrine-D3	3.476	108311	925454	0.1170	5.5275
Levamisole	Benzoyllecgonine-d8	3.724	18884	9328	2.0245	5.2177
Benzoyllecgonine	Benzoyllecgonine-d8	5.413	6347	9328	0.6805	15.6995
Zopiclone	Zopiclone-D4	5.828	8641	80140	0.1078	5.8170
Cocaine	Cocaine-D3	5.932	56294	454408	0.1239	5.2139
Methylphenidate	Methylphenidate-D4	5.965	67855	560919	0.1210	5.1709
Metoprolol	Methylphenidate-D4	6.000	12047	560919	0.0215	4.9487
Ondansetron	Carbamazepine-13C6	6.036	31805	1620002	0.0196	5.0357
Mirtazapine	Carbamazepine-13C6	6.303	28354	1620002	0.0175	5.0963
Mitragynine	Doxepin-D3	6.871	6008	68114	0.0882	5.2680
Doxepin	Doxepin-D3	6.981	6293	68114	0.0924	5.6726
Carbamazepine	Carbamazepine-13C6	7.151	142765	1620002	0.0881	5.4003
Protriptyline	Protriptyline-d3	7.229	8644	95257	0.0907	5.3783
Estazolam	Estazolam-D5	7.242	72798	821388	0.0886	5.4658
Amitriptyline	Amitriptyline-D3	7.245	13731	51814	0.2650	5.1035
Maprotiline	Nortriptyline-d3	7.245	16105	67496	0.2386	5.3204
Nortriptyline	Nortriptyline-d3	7.249	7440	67496	0.1102	5.4853
alpha-hydroxymidazolam	alpha-hydroxymidazolam-D4	7.336	50239	571104	0.0880	4.8549
Midazolam	Midazolam-D4	7.358	16289	412656	0.0395	5.4454

ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report *P2a cal 1*

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Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Chlordiazepoxide	Chlordiazepoxide-D5	7.381	35980	713775	0.0504	5.2227
Phenazepam	Phenazepam-D4	7.415	14044	52348	0.2683	4.0951
Prazepam	Prazepam-D5	7.640	174007	1566222	0.1111	4.4274

ISP FORENSICS - Pocatello Instrument # 59740

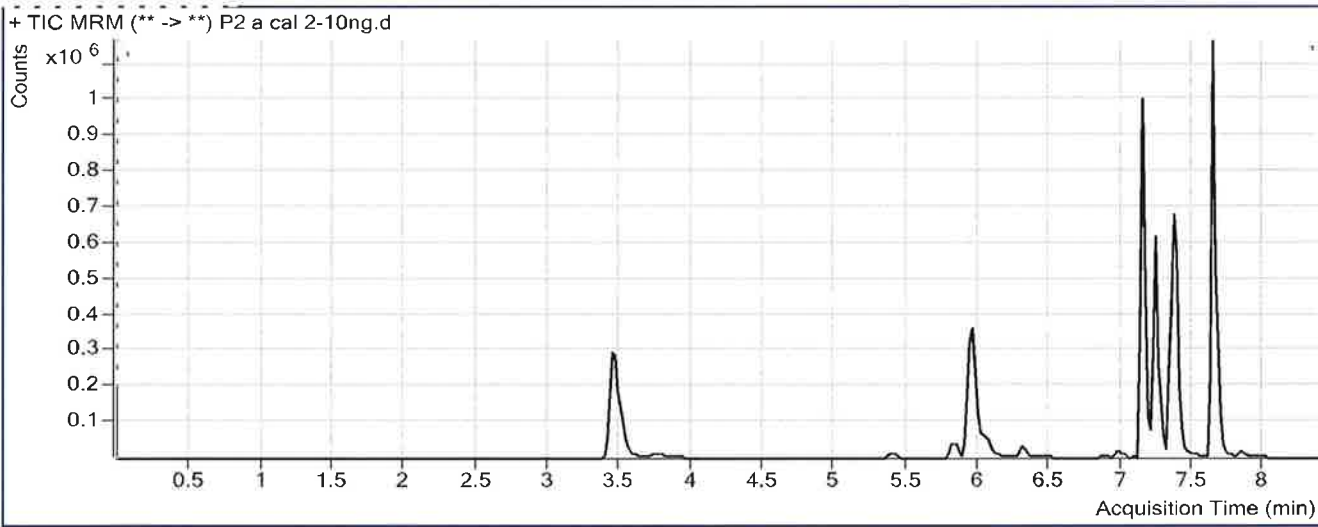
Multi-Drug Confirmatory Analysis Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 2a SP 010918.t
Analysis Time 1/19/2018 2:05 PM **Analyst Name** ISPUser
Report Time 1/19/2018 2:07 PM **Reporter Name** ISPUser
Last Calib Update 1/19/2018 2:05 PM **Batch State** Processed

Analysis Info

Acq Time 2018-01-10 13:31 **Data File** P2 a cal 2-10ng.d
Sample Type Calibration **Sample Name** a cal 2-10ng
Dilution 1 **Acq Method** MDQ Panel 2a 3-12-17-3.m
Position P1-B5 **Sample Info**
Inj Vol -1 **Comment** AM 28-Panel 2

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Pseudoephedrine	Pseudoephedrine-D3	3.476	282875	1210437	0.2337	10.1537
Levamisole	Benzoyllecgonine-d8	3.744	48158	11324	4.2526	9.7062
Benzoyllecgonine	Benzoyllecgonine-d8	5.413	19540	11324	1.7255	19.1604
Zopiclone	Zopiclone-D4	5.828	23654	109596	0.2158	9.9962
Cocaine	Cocaine-D3	5.932	141813	581450	0.2439	10.1067
Methylphenidate	Methylphenidate-D4	5.965	163985	669556	0.2449	10.0163
Metoprolol	Methylphenidate-D4	6.000	30493	669556	0.0455	10.0110
Ondansetron	Carbamazepine-13C6	6.036	83981	1808490	0.0464	10.2801
Mirtazapine	Carbamazepine-13C6	6.303	64552	1808490	0.0357	10.2307
Mitragynine	Doxepin-D3	6.870	11159	64911	0.1719	9.1133
Doxepin	Doxepin-D3	6.981	11992	64911	0.1847	10.0597
Carbamazepine	Carbamazepine-13C6	7.151	352847	1808490	0.1951	11.2397
Protriptyline	Protriptyline-d3	7.208	18102	84976	0.2130	10.7785
Estazolam	Estazolam-D5	7.242	190666	990121	0.1926	10.6416
Amitriptyline	Amitriptyline-D3	7.245	23824	47753	0.4989	9.7993
Maprotiline	Nortriptyline-d3	7.245	26841	63931	0.4198	9.5580
Nortriptyline	Nortriptyline-d3	7.249	14317	63931	0.2239	10.7425
alpha-hydroxymidazolam	alpha-hydroxymidazolam-D4	7.336	131339	714136	0.1839	10.3731
Midazolam	Midazolam-D4	7.358	41112	529393	0.0777	10.2587

ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report PZa cal 2

B

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Chlordiazepoxide	Chlordiazepoxide-D5	7.381	76609	878340	0.0872	9.4995
Phenazepam	Phenazepam-D4	7.415	29889	61035	0.4897	8.8444
Prazepam	Prazepam-D5	7.640	415976	1845937	0.2253	9.9308

ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report *PLa cal 3*

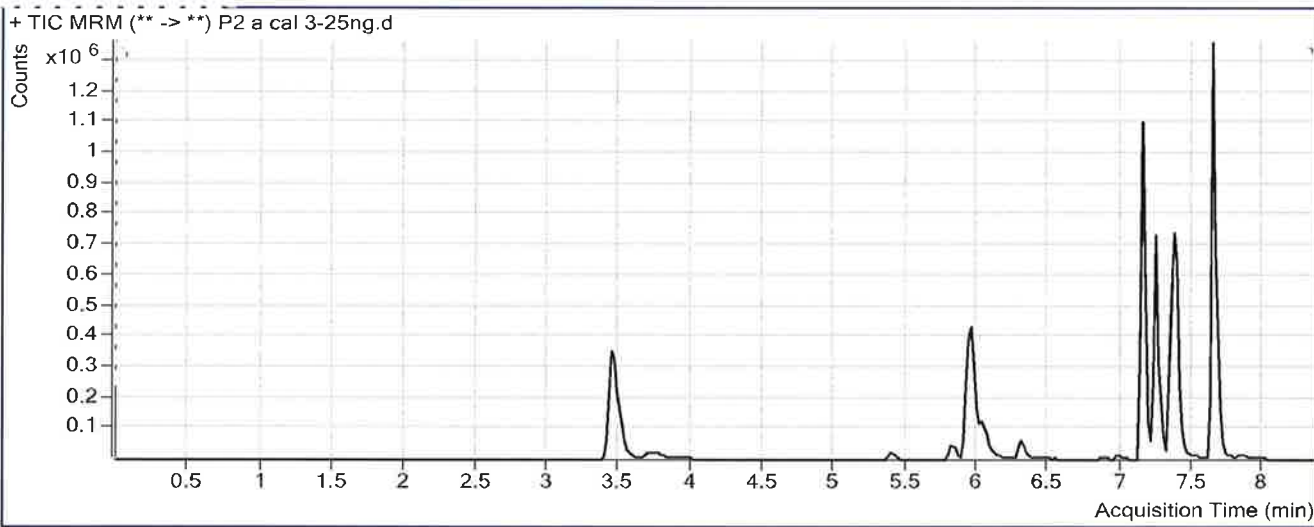
SP

Batch Data Path C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 2a SP 010918.t
Analysis Time 1/19/2018 2:05 PM **Analyst Name** ISPUser
Report Time 1/19/2018 2:07 PM **Reporter Name** ISPUser
Last Calib Update 1/19/2018 2:05 PM **Batch State** Processed

Analysis Info

Acq Time 2018-01-10 14:02 **Data File** P2 a cal 3-25ng.d
Sample Type Calibration **Sample Name** a cal 3-25ng
Dilution 1 **Acq Method** MDQ Panel 2a 3-12-17-3.m
Position P1-C5 **Sample Info**
Inj Vol -1 **Comment** AM 28-Panel 2

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Pseudoephedrine	Pseudoephedrine-D3	3.476	621760	1059325	0.5869	24.1613
Levamisole	Benzoylecgonine-d8	3.744	105517	9655	10.9282	23.1544
Benzoylecgonine	Benzoylecgonine-d8	5.413	41641	9655	4.3126	27.7283
Zopiclone	Zopiclone-D4	5.828	45708	83626	0.5466	22.7948
Cocaine	Cocaine-D3	5.912	324562	543629	0.5970	24.5034
Methylphenidate	Methylphenidate-D4	5.965	358682	576535	0.6221	24.7628
Metoprolol	Methylphenidate-D4	6.000	67449	576535	0.1170	25.0409
Ondansetron	Carbamazepine-13C6	6.036	191465	1731518	0.1106	22.8293
Mirtazapine	Carbamazepine-13C6	6.303	132062	1731518	0.0763	21.6826
Mitragynine	Doxepin-D3	6.871	17793	32976	0.5396	26.0008
Doxepin	Doxepin-D3	6.981	15209	32976	0.4612	23.1900
Carbamazepine	Carbamazepine-13C6	7.151	755331	1731518	0.4362	24.4008
Protriptyline	Protriptyline-d3	7.229	16325	33753	0.4837	22.7292
Estazolam	Estazolam-D5	7.242	428739	907266	0.4726	24.5840
Amitriptyline	Amitriptyline-D3	7.245	23359	19838	1.1775	23.4233
Maprotiline	Nortriptyline-d3	7.245	23847	26097	0.9138	21.1075
Nortriptyline	Nortriptyline-d3	7.249	13725	26097	0.5259	24.7033
alpha-hydroxymidazolam	alpha-hydroxymidazolam-D4	7.336	303960	680384	0.4467	25.4898
Midazolam	Midazolam-D4	7.358	89458	501345	0.1784	22.9620

ISP FORENSICS - Pocatello Instrument # 59740
Multi-Drug Confirmatory Analysis Report

p2a cal 3



Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Chlordiazepoxide	Chlordiazepoxide-D5	7.381	160549	786138	0.2042	23.0926
Phenazepam	Phenazepam-D4	7.415	61458	49253	1.2478	25.1040
Prazepam	Prazepam-D5	7.640	908661	1687688	0.5384	25.0111

ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report

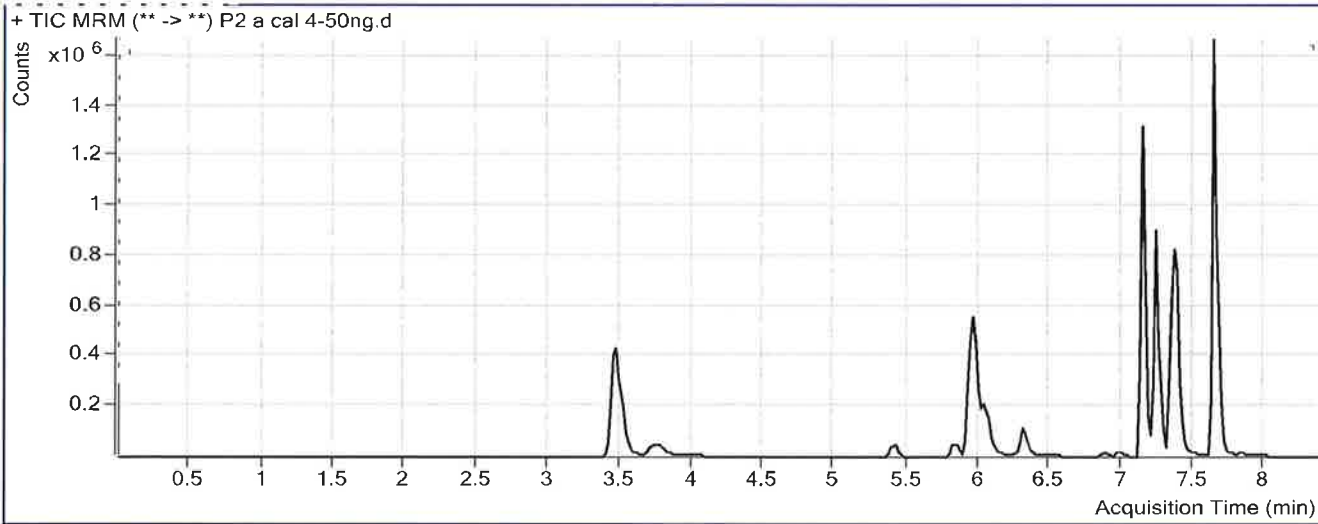
P

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\MDQ Panel 1 and 2 TS 010918\QuantResults\MDQ Panel 2a SP 010918.t		
Analysis Time	1/19/2018 2:05 PM	Analyst Name	ISPUser
Report Time	1/19/2018 2:08 PM	Reporter Name	ISPUser
Last Calib Update	1/19/2018 2:05 PM	Batch State	Processed

Analysis Info

Acq Time	2018-01-10 14:34	Data File	P2 a cal 4-50ng.d
Sample Type	Calibration	Sample Name	a cal 4-50ng
Dilution	1	Acq Method	MDQ Panel 2a 3-12-17-3.m
Position	P1-D5	Sample Info	
Inj Vol	-1	Comment	AM 28-Panel 2

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Pseudoephedrine	Pseudoephedrine-D3	3.476	1121975	941760	1.1914	48.1292
Levamisole	Benzoyllecgonine-d8	3.744	201394	9542	21.1068	43.6594
Benzoyllecgonine	Benzoyllecgonine-d8	5.413	96087	9542	10.0703	46.7959
Zopiclone	Zopiclone-D4	5.828	78028	65341	1.1942	47.8533
Cocaine	Cocaine-D3	5.932	566862	475105	1.1931	48.8057
Methylphenidate	Methylphenidate-D4	5.965	639250	509457	1.2548	49.4942
Metoprolol	Methylphenidate-D4	6.000	126730	509457	0.2488	52.7590
Ondansetron	Carbamazepine-13C6	6.036	363640	1570953	0.2315	46.4841
Mirtazapine	Carbamazepine-13C6	6.303	255476	1570953	0.1626	46.0551
Mitragynine	Doxepin-D3	6.870	33986	32134	1.0576	49.7966
Doxepin	Doxepin-D3	6.981	31552	32134	0.9819	47.9218
Carbamazepine	Carbamazepine-13C6	7.151	1280896	1570953	0.8154	45.0955
Protriptyline	Protriptyline-d3	7.229	32276	31817	1.0144	46.1668
Estazolam	Estazolam-D5	7.242	747456	802393	0.9315	47.4387
Amitriptyline	Amitriptyline-D3	7.245	47708	20586	2.3175	46.3127
Maprotiline	Nortriptyline-d3	7.245	47811	24020	1.9905	46.2830
Nortriptyline	Nortriptyline-d3	7.249	24398	24020	1.0158	47.3499
alpha-hydroxymidazolam	alpha-hydroxymidazolam-D4	7.336	528423	580539	0.9102	52.1465
Midazolam	Midazolam-D4	7.358	165811	430644	0.3850	49.0037

ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report *pZa cal 4*

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Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Chlordiazepoxide	Chlordiazepoxide-D5	7.381	286864	675400	0.4247	48.7105
Phenazepam	Phenazepam-D4	7.415	116715	44578	2.6182	54.4975
Prazepam	Prazepam-D5	7.640	1634861	1471715	1.1109	52.5864

ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report

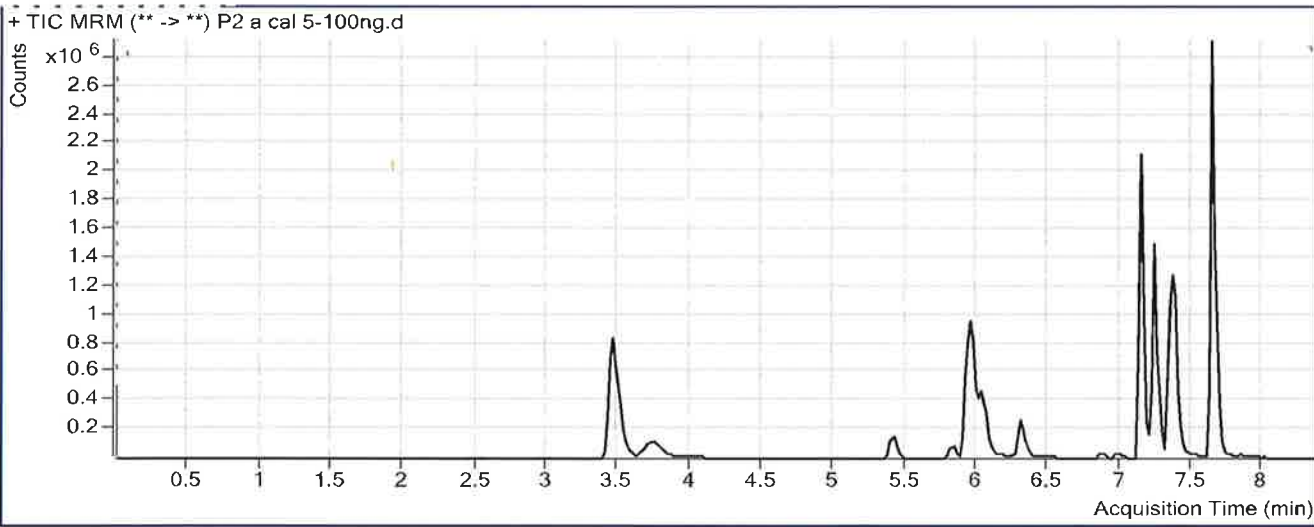


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Analysis Time 1/19/2018 2:05 PM **Analyst Name** ISPUser
Report Time 1/19/2018 2:08 PM **Reporter Name** ISPUser
Last Calib Update 1/19/2018 2:05 PM **Batch State** Processed

Analysis Info

Acq Time 2018-01-10 15:05 **Data File** P2 a cal 5-100ng.d
Sample Type Calibration **Sample Name** a cal 5-100ng
Dilution 1 **Acq Method** MDQ Panel 2a 3-12-17-3.m
Position P1-E5 **Sample Info**
Inj Vol -1 **Comment** AM 28-Panel 2

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Pseudoephedrine	Pseudoephedrine-D3	3.476	2572934	1073598	2.3966	95.9204
Levamisole	Benzoylcegonine-d8	3.724	496561	10852	45.7578	93.3193
Benzoylcegonine	Benzoylcegonine-d8	5.413	280159	10852	25.8165	98.9431
Zopiclone	Zopiclone-D4	5.828	148864	58955	2.5250	99.3513
Cocaine	Cocaine-D3	5.932	1261698	515736	2.4464	99.9000
Methylphenidate	Methylphenidate-D4	5.965	1343607	533384	2.5190	98.9175
Metoprolol	Methylphenidate-D4	6.000	279855	533384	0.5247	110.8030
Ondansetron	Carbamazepine-13C6	6.036	869697	1676448	0.5188	102.6949
Mirtazapine	Carbamazepine-13C6	6.303	597889	1676448	0.3566	100.8129
Mitragynine	Doxepin-D3	6.871	72054	34376	2.0961	97.4944
Doxepin	Doxepin-D3	6.981	70088	34376	2.0389	98.1239
Carbamazepine	Carbamazepine-13C6	7.151	2760861	1676448	1.6469	90.4812
Protriptyline	Protriptyline-d3	7.229	81895	36455	2.2464	100.5707
Estazolam	Estazolam-D5	7.242	1548163	822815	1.8815	94.7450
Amitriptyline	Amitriptyline-D3	7.245	111858	18795	5.9515	119.2742
Maprotiline	Nortriptyline-d3	7.245	113401	30549	3.7121	86.5381
Nortriptyline	Nortriptyline-d3	7.249	58911	30549	1.9284	89.5434
alpha-hydroxymidazolam	alpha-hydroxymidazolam-D4	7.336	1165703	635301	1.8349	105.3272
Midazolam	Midazolam-D4	7.358	394520	503745	0.7832	99.1906

ISP FORENSICS - Pocatello Instrument # 59740
Multi-Drug Confirmatory Analysis Report

Pza cal 5 \$

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Chlordiazepoxide	Chlordiazepoxide-D5	7.381	572783	692924	0.8266	95.4002
Phenazepam	Phenazepam-D4	7.415	219220	41948	5.2260	110.4300
Prazepam	Prazepam-D5	7.640	3565937	1612479	2.2115	105.6036

ISP FORENSICS - Pocatello Instrument # 59740
Multi-Drug Confirmatory Analysis Report

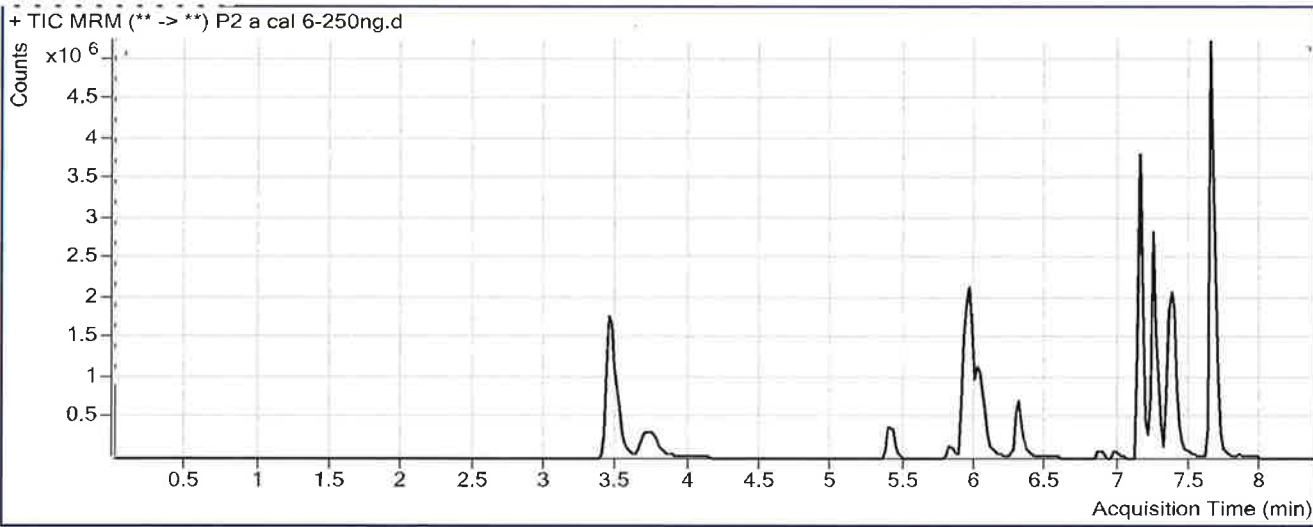


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Report Time 1/19/2018 2:08 PM **Reporter Name** ISPUser
Last Calib Update 1/19/2018 2:05 PM **Batch State** Processed

Analysis Info

Acq Time 2018-01-10 15:37 **Data File** P2 a cal 6-250ng.d
Sample Type Calibration **Sample Name** a cal 6-250ng
Dilution 1 **Acq Method** MDQ Panel 2a 3-12-17-3.m
Position P1-F5 **Sample Info**
Inj Vol -1 **Comment** AM 28-Panel 2

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Pseudoephedrine	Pseudoephedrine-D3	3.456	6889727	1126740	6.1147	243.3631
Levamisole	Benzoylcegonine-d8	3.704	1372502	10887	126.0707	255.1113
Benzoylcegonine	Benzoylcegonine-d8	5.413	794818	10887	73.0077	255.2278
Zopiclone	Zopiclone-D4	5.808	321781	52358	6.1458	239.4555
Cocaine	Cocaine-D3	5.912	3287100	546354	6.0164	245.4456
Methylphenidate	Methylphenidate-D4	5.965	3508177	564745	6.2120	243.2851
Metoprolol	Methylphenidate-D4	5.980	671963	564745	1.1899	250.7304
Ondansetron	Carbamazepine-13C6	6.036	2189218	1571477	1.3931	273.7602
Mirtazapine	Carbamazepine-13C6	6.303	1615420	1571477	1.0280	290.2837
Mitragynine	Doxepin-D3	6.871	200487	35814	5.5980	258.3500
Doxepin	Doxepin-D3	6.981	187066	35814	5.2233	249.3717
Carbamazepine	Carbamazepine-13C6	7.151	7116910	1571477	4.5288	247.7886
Protriptyline	Protriptyline-d3	7.229	188729	33633	5.6114	249.1617
Estazolam	Estazolam-D5	7.242	3551825	746388	4.7587	238.0136
Amitriptyline	Amitriptyline-D3	7.245	275495	22150	12.4376	249.4973
Maprotiline	Nortriptyline-d3	7.245	286666	24850	11.5361	269.4811
Nortriptyline	Nortriptyline-d3	7.249	132197	24850	5.3199	246.3412
alpha-hydroxymidazolam	alpha-hydroxymidazolam-D4	7.336	2558253	582343	4.3930	252.4571
Midazolam	Midazolam-D4	7.358	961733	493452	1.9490	246.1448

ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report

P2a cal 6

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Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Chlordiazepoxide	Chlordiazepoxide-D5	7.381	1169641	571777	2.0456	237.0206
Phenazepam	Phenazepam-D4	7.415	401027	32489	12.3436	263.0906
Prazepam	Prazepam-D5	7.640	8458899	1575450	5.3692	257.7142

ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report

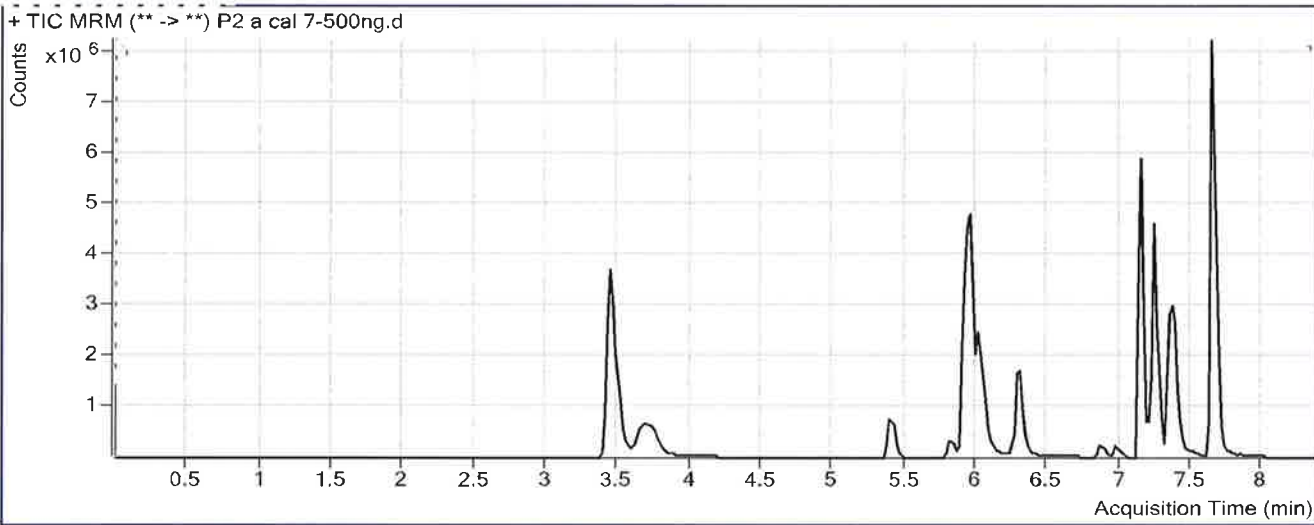


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Report Time 1/19/2018 2:08 PM **Reporter Name** ISUser
Last Calib Update 1/19/2018 2:05 PM **Batch State** Processed

Analysis Info

Acq Time 2018-01-10 16:08 **Data File** P2 a cal 7-500ng.d
Sample Type Calibration **Sample Name** a cal 7-500ng
Dilution 1 **Acq Method** MDQ Panel 2a 3-12-17-3.m
Position P1-G5 **Sample Info**
Inj Vol -1 **Comment** AM 28-Panel 2

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Pseudoephedrine	Pseudoephedrine-D3	3.456	14684876	1155860	12.7047	504.6845
Levamisole	Benzoylcegonine-d8	3.704	3084006	11620	265.4101	535.8136
Benzoylcegonine	Benzoylcegonine-d8	5.413	1525767	11620	131.3078	448.3020
Zopiclone	Zopiclone-D4	5.808	713985	55209	12.9323	502.0615
Cocaine	Cocaine-D3	5.912	7397076	599155	12.3459	503.4883
Methylphenidate	Methylphenidate-D4	5.965	8912929	679631	13.1144	513.1189
Metoprolol	Methylphenidate-D4	5.980	1357798	679631	1.9978	420.7012
Ondansetron	Carbamazepine-13C6	6.016	4750035	1363698	3.4832	682.6990
Mirtazapine	Carbamazepine-13C6	6.303	4074430	1363698	2.9878	843.4121
Mitragynine	Doxepin-D3	6.870	568165	52661	10.7890	496.7877
Doxepin	Doxepin-D3	6.961	540840	52661	10.2701	489.0813
Carbamazepine	Carbamazepine-13C6	7.151	12638490	1363698	9.2678	506.4604
Protriptyline	Protriptyline-d3	7.208	551194	48193	11.4372	506.4190
Estazolam	Estazolam-D5	7.242	6007881	609450	9.8579	491.9302
Amitriptyline	Amitriptyline-D3	7.245	809005	32428	24.9479	500.6717
Maprotiline	Nortriptyline-d3	7.245	841301	36136	23.2816	544.1198
Nortriptyline	Nortriptyline-d3	7.249	388097	36136	10.7400	496.9226
alpha-hydroxymidazolam	alpha-hydroxymidazolam-D4	7.336	4235935	490760	8.6314	496.2212
Midazolam	Midazolam-D4	7.358	1834382	460107	3.9869	503.0233

ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report Pzaca 7 P

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Chlordiazepoxide	Chlordiazepoxide-D5	7.381	2000928	412532	4.8504	562.8652
Phenazepam	Phenazepam-D4	7.415	617628	23099	26.7383	571.8350
Prazepam	Prazepam-D5	7.640	15069237	1455970	10.3500	497.6419

ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report

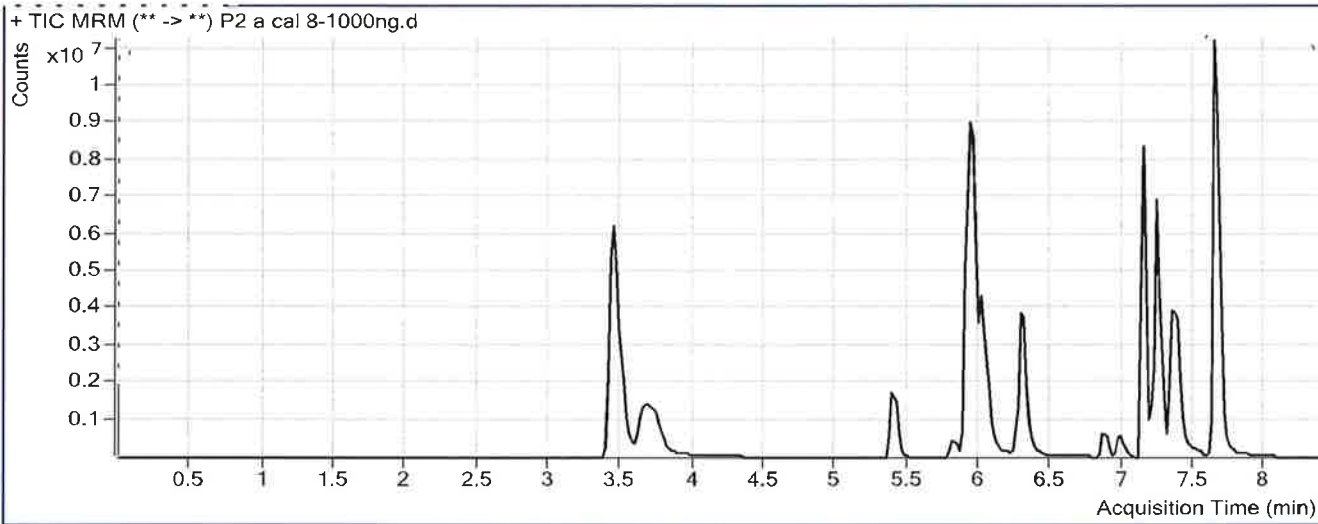


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Report Time 1/19/2018 2:08 PM **Reporter Name** ISPUser
Last Calib Update 1/19/2018 2:05 PM **Batch State** Processed

Analysis Info

Acq Time #VALUE! **Data File** P2 a cal 8-1000ng.d
Sample Type Calibration **Sample Name** a cal 8-1000ng
Dilution 1 **Acq Method** MDQ Panel 2a 3-12-17-3.m
Position P1-H5 **Sample Info**
Inj Vol -1 **Comment** AM 28-Panel 2

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Pseudoephedrine	Pseudoephedrine-D3	3.456	27941579	1100114	25.3988	1008.0602
Levamisole	Benzoyllecgonine-d8	3.684	6513663	11311	575.8508	1161.2029
Benzoyllecgonine	Benzoyllecgonine-d8	5.413	3533578	11311	312.3916	1048.0028
Zopiclone	Zopiclone-D4	5.808	1074930	41141	26.1281	1012.6705
Cocaine	Cocaine-D3	5.912	14106706	573751	24.5868	1002.5363
Methylphenidate	Methylphenidate-D4	5.965	16837044	661653	25.4470	995.2344
Metoprolol	Methylphenidate-D4	5.980	2188665	661653	3.3079	696.2817
Ondansetron	Carbamazepine-13C6	6.016	8904584	1034921	8.6041	1684.6307
Mirtazapine	Carbamazepine-13C6	6.283	9311600	1034921	8.9974	2539.5374
Mitragynine	Doxepin-D3	6.871	1543359	71178	21.6832	997.1892
Doxepin	Doxepin-D3	6.981	1521504	71178	21.3762	1016.5789
Carbamazepine	Carbamazepine-13C6	7.151	19122269	1034921	18.4770	1009.1335
Protriptyline	Protriptyline-d3	7.229	1454206	64381	22.5875	998.7958
Estazolam	Estazolam-D5	7.242	8380528	406686	20.6069	1027.1811
Amitriptyline	Amitriptyline-D3	7.245	2327325	49481	47.0345	944.1132
Maprotiline	Nortriptyline-d3	7.245	2423957	48077	50.4178	1178.6249
Nortriptyline	Nortriptyline-d3	7.249	1059171	48077	22.0305	1018.9119
alpha-hydroxymidazolam	alpha-hydroxymidazolam-D4	7.336	5960255	392287	15.1936	873.6420
Midazolam	Midazolam-D4	7.358	3144063	394934	7.9610	1003.9715

ISP FORENSICS - Pocatello Instrument # 59740
Multi-Drug Confirmatory Analysis Report

Pza cal 8 S

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Chlordiazepoxide	Chlordiazepoxide-D5	7.381	2603387	279943	9.2997	1079.7777
Phenazepam	Phenazepam-D4	7.415	853380	20253	42.1366	902.1034
Prazepam	Prazepam-D5	7.640	23886215	1164584	20.5105	987.0844