





Worklist: 2428

<u>LAB_CASE</u>	<u>ITEM</u>	<u>TASK_ID</u>	<u>DESCRIPTION</u>	
M2018-0060	1	116901	AM 28 Blood Multi-Drug Quant Panel 2 by LC-QC	
M2018-2208	1	116905	AM 28 Blood Multi-Drug Quant Panel 2 by LC-QC	
P2018-1326	1	116912	AM 28 Blood Multi-Drug Quant Panel 2 by LC-QC	
P2018-1493	1	116923	AM 28 Blood Multi-Drug Quant Panel 2 by LC-QC	

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

Extraction Date: 05/29/2018
Plate lot#: 0507680

Analyst: Tamara Salazar
Plate Expiration: 06/05/18

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

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

Blank Blood Lot: 361331-1

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: *C:\MassHunter\Data\2018\MD Quant\052918 MDQ P1 P2 TS*
Batch Name: *052918 MDQ P2a worklist 2427 TS*
- 2. Make necessary changes to integration limits
- 3. Integration linear and R² values ≥0.98 for each analyte.
- 4. For unknown samples and controls: response ratio within 20% of average of controls and standards, RT within +/- 5% (tramadol RT +/-2%), S/N for primary transition >10 and secondary transitions >5.
- 5. Did all QCs pass for each analyte? Y / N _____ Add Control data to QC tracking spreadsheet.
- 6. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports.

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

TS

Extraction Date: 05/29/2018

Analyst: Tamara Salazar

Plate lot#: 0507680

Plate Expiration: 06/05/18

COMMENTS: *Curves Limited: Benzoylcegonine: 5-500*

Maprotiline: 5-500

Mirtazapine: 5-250

Mitragynine: 5-250

Ondansetron: 5-250



Idaho State Police Forensic Services

TS

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

Analyst: Tamara Salazar
Extraction Date: 05/29/18
Worklist Number: 2428

<i>Reagent</i>	<i>Lot Number</i>	<i>Expiration Date</i>	<i>Date in Service</i>	<i>Date Out of Service</i>	<i>Initials</i>
ToxBox Benzo/Opiate Quant Plate	0507680	06/05/18			
Negative Blood	361331-1		05/25/18		
Methanol External Control Solution	022018	02/20/19	02/20/18		
Blood External Control Solution	WS022018	02/20/19	02/20/18		
0.5M Ammonium Hydroxide	032918	09/29/18	03/29/18		
Formic Acid (LCMS Grade)	095180B		11/15/17		
Water (LCMS Grade)	177528		03/05/18		
Methanol (LCMS Grade)	177145		04/11/18		
Ammonium Formate (LCMS Grade)	A0287238		01/30/17		
Ammonium Hydroxide (ACS grade or better)	053200		08/03/07		
Ethyl Acetate (ACS grade or better)	100362		06/26/17		
20% LCMS Methanol in LCMS Water	052918	Make Fresh	05/29/18		
5mM Ammonium Formate + 0.01% Formic Acid in Water (Mobile Phase A)	051018		05/10/18		
0.01% Formic Acid in Methanol (Mobile Phase B)	031918		03/19/18		
Needle Rinse--75% LCMS MeOH in LCMS Water	052918		05/29/18		

Methanol External Control Solution (Lot: 022018)
100 ul each 1 mg/mL stock solution in 9600 ul MeOH

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>	<i>Expiration Date</i>
Methanol (LCMS)	Fisher	172516	
Zopiclone	Cerilliant	FE08291601	12/31/2021
Chlordiazepoxide	Cerilliant	FE07241502	08/31/2020
Flunitrazepam	Cerilliant	FE08051602	08/31/2021
Prepared:	02/20/18		
Prepared By:	Tamara Salazar		
Expires:	02/20/19		

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

Blood External Control Solution (Lot: WS022018)

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

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
Negative Blood	Hemostat	361331-2
Methanol External Control Solution		022018
Prepared:	02/20/18	
Prepared by:	Tamara Salazar	
Expires:	02/20/19	

0.5M Ammonium Hydroxide (Lot: 032918)

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
Ammonium Hydroxide (ACS grade or better)	Fisher	053200
DI Water	-	-
Prepared:	03/29/18	
Prepared By:	Tamara Salazar	
Expires:	09/29/18	

20% LCMS Methanol in LCMS Water (Lot: Prepared Fresh)

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
MeOH (LCMS Grade)	Fisher	177145
Water (LCMS Grade)	Fisher	177528

5mM Ammonium Formate + 0.01% Formic Acid in Water (Lot: 051018)

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
Ammonium Formate	Arcos Organic	A0287238
LCMS Water	Fisher	177528
Formic Acid	Fisher	095180B
Prepared:	05/10/18	
Prepared By:	Sarah Pickle	

0.01% Formic Acid in LCMS Methanol (Mobile Phase B) (Lot: 031918)

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
Formic Acid	Fisher	095180B
MeOH (LCMS Grade)	Fisher	172517
Prepared:	03/19/18	
Prepared By:	Tamara Salazar	

Needle Rinse (75% LCMS MeOH in LCMS Water) (Lot: 052918)

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
MeOH (LCMS Grade)	Fisher	177145
Water (LCMS Grade)	Fisher	177528
Prepared:	05/29/18	
Prepared By:	Tamara Salazar	

TS

ISP FORENSICS - Pocatello Instrument # 59740

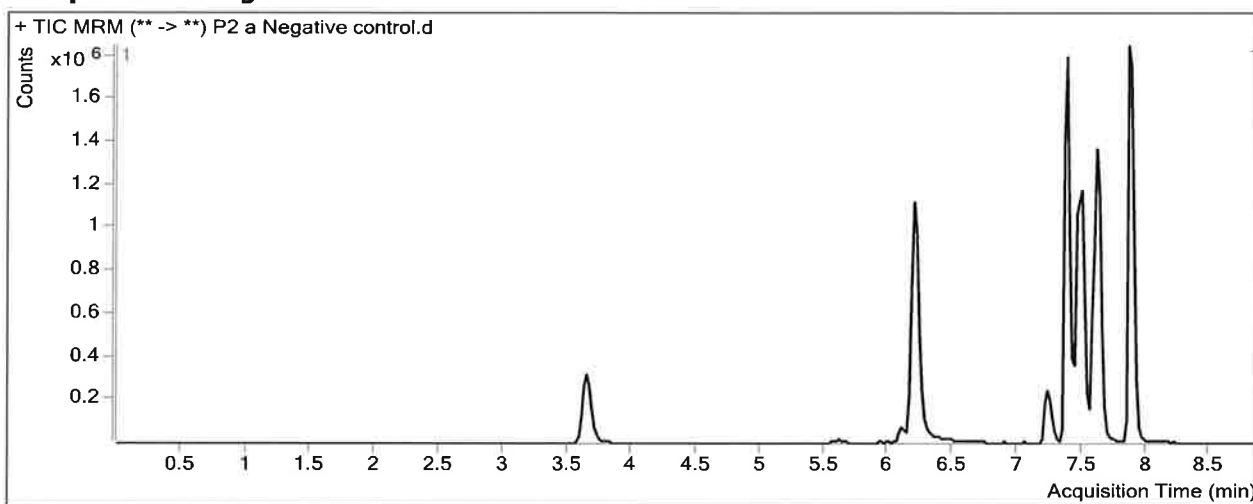
Multi-Drug Confirmatory Analysis Report

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Analysis Time 6/6/2018 11:39 AM **Analyst Name** ISPUser
Report Time 6/6/2018 11:43 AM **Reporter Name** ISPUser
Last Calib Update 6/6/2018 11:39 AM **Batch State** Processed

Analysis Info

Acq Time 2018-05-29 16:21 **Data File** P2 a Negative control.d
Sample Type Sample **Sample Name** P2 a Negative control.d
Dilution 1 **Acq Method** MDQ Panel 2a 5-29-18.m
Position P1-E6 **Sample Info**
Inj Vol -1 **Comment** AM 28-Panel 2

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Carbamazepine	Carbamazepine-13C6	7.394	15718	5403450	0.0029	0.5372 <5 TS
Amitriptyline	Amitriptyline-D3	7.467	15668	727282	0.0215	0.9395 <5 TS

TS

ISP FORENSICS - Pocatello Instrument # 59740

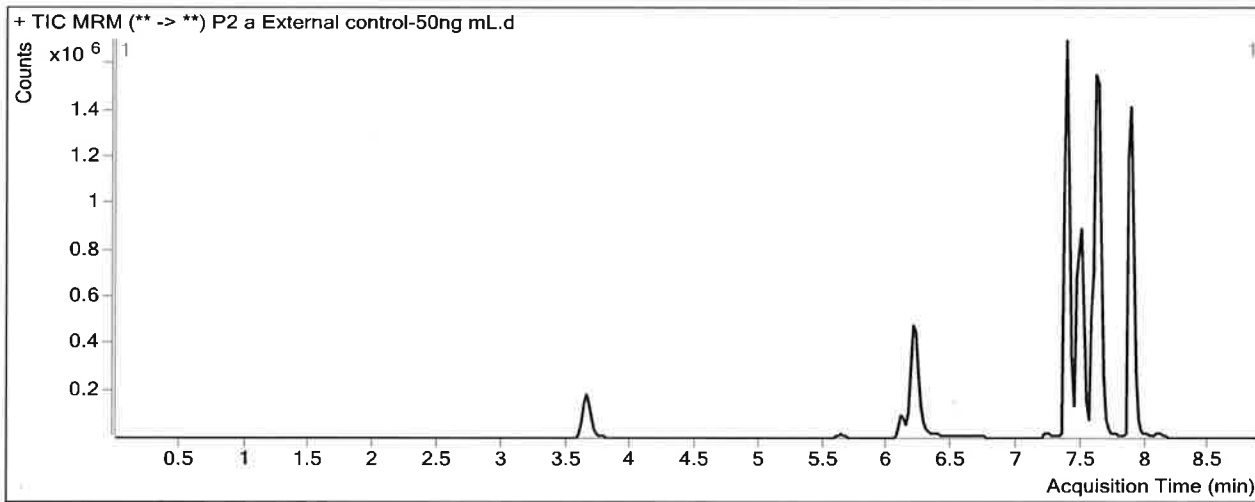
Multi-Drug Confirmatory Analysis Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\052918 MDQ P1 P2 TS\QuantResults\052918 MDQ P2a worklist 2428 TS
Analysis Time 6/6/2018 11:39 AM **Analyst Name** ISPUser
Report Time 6/6/2018 11:43 AM **Reporter Name** ISPUser
Last Calib Update 6/6/2018 11:39 AM **Batch State** Processed

Analysis Info

Acq Time 2018-05-29 16:36 **Data File** P2 a External control-50ng mL.d
Sample Type Sample **Sample Name** P2 a External control-50ng mL.d
Dilution 1 **Acq Method** MDQ Panel 2a 5-29-18.m
Position P1-F6 **Sample Info**
Inj Vol -1 **Comment** AM 28; WS022018 50 ng flunitrazepam, zopiclone, chlorodiazepoxide

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
<u>Zopiclone</u>	Zopiclone-D4	6.109	86422	239169	0.3613	<u>14.7013</u>
Amitriptyline	Amitriptyline-D3	8.112	24440	49836	0.4904	11.5645 *
<u>Chlordiazepoxide</u>	Chlordiazepoxide-D5	7.623	830751	2124310	0.3911	<u>40.8439</u>

* Amitriptyline negative due to retention time shifting out of acceptable window. - TS

TS

ISP FORENSICS - Pocatello Instrument # 59740

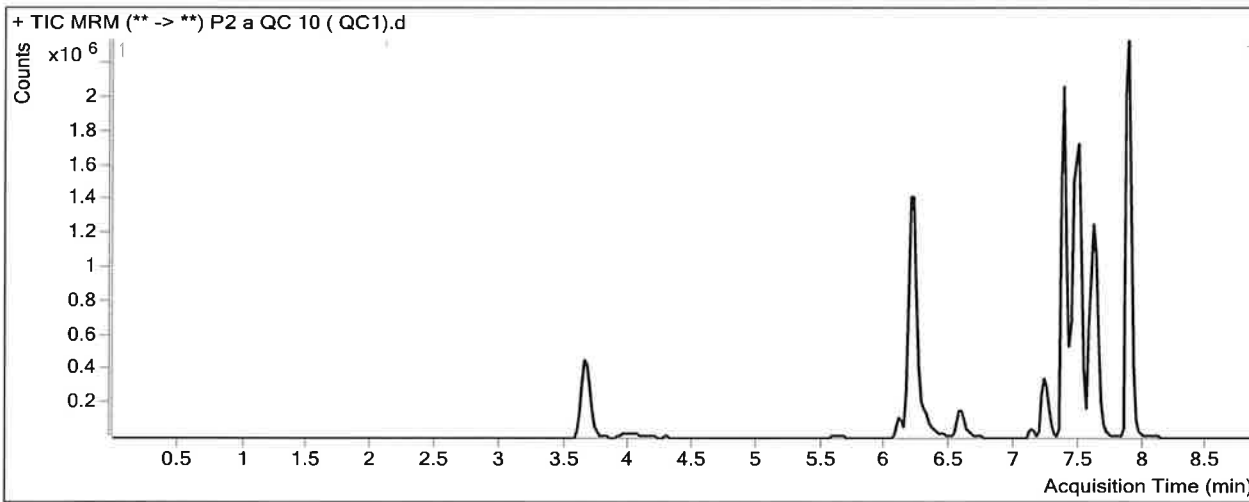
Multi-Drug Confirmatory Analysis Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\052918 MDQ P1 P2 TS\QuantResults\052918 MDQ P2a worklist 2428 TS
Analysis Time 6/6/2018 11:39 AM **Analyst Name** ISPUser
Report Time 6/6/2018 11:43 AM **Reporter Name** ISPUser
Last Calib Update 6/6/2018 11:39 AM **Batch State** Processed

Analysis Info

Acq Time 2018-05-29 17:08 **Data File** P2 a QC 10 (QC1).d
Sample Type QC **Sample Name** P2 a QC 10 (QC1).d
Dilution 1 **Acq Method** MDQ Panel 2a 5-29-18.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	3.676	416394	1917833	0.2171	10.1322
Levamisole	Benzoylcegonine-d8	3.985	158998	37451	4.2455	8.8437
Benzoylcegonine	Benzoylcegonine-d8	5.677	7390	37451	0.1973	9.3968
Zopiclone	Zopiclone-D4	6.109	72881	348858	0.2089	9.3561
Cocaine	Cocaine-D3	6.172	444914	1801726	0.2469	10.0916
Methylphenidate	Methylphenidate-D4	6.228	898497	3111861	0.2887	9.6855
Metoprolol	Methylphenidate-D4	6.244	105508	3111861	0.0339	10.4471
Ondansetron	Carbamazepine-13C6	6.314	243769	5185766	0.0470	9.7798
Mirtazapine	Carbamazepine-13C6	6.567	401508	5185766	0.0774	9.8514
Mitragynine	Doxepin-D3	7.113	135957	1143552	0.1189	9.9684
Doxepin	Doxepin-D3	7.225	207131	1143552	0.1811	10.2681
Carbamazepine	Carbamazepine-13C6	7.394	826528	5185766	0.1594	9.7014
Protriptyline	Protriptyline-d3	7.452	216614	1046864	0.2069	10.2458
Estazolam	Estazolam-D5	7.484	375163	1970516	0.1904	10.4004
Amitriptyline	Amitriptyline-D3	7.487	411567	987881	0.4166	9.8923
Maprotiline	Nortriptyline-d3	7.487	408460	848636	0.4813	9.9757
Nortriptyline	Nortriptyline-d3	7.492	157871	848636	0.1860	10.5002
alpha-hydroxymidazolam	alpha-hydroxymidazolam-D4	7.579	279685	1566883	0.1785	10.6819
Midazolam	Midazolam-D4	7.601	94268	1469969	0.0641	10.4080

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ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report P2 a QC 10 (QC1)

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Chlordiazepoxide	Chlordiazepoxide-D5	7.623	149969	1684900	0.0890	10.3761
Phenazepam	Phenazepam-D4	7.657	47607	61984	0.7681	9.2419
Prazepam	Prazepam-D5	7.883	1256361	6048939	0.2077	9.3987

TS

ISP FORENSICS - Pocatello Instrument # 59740

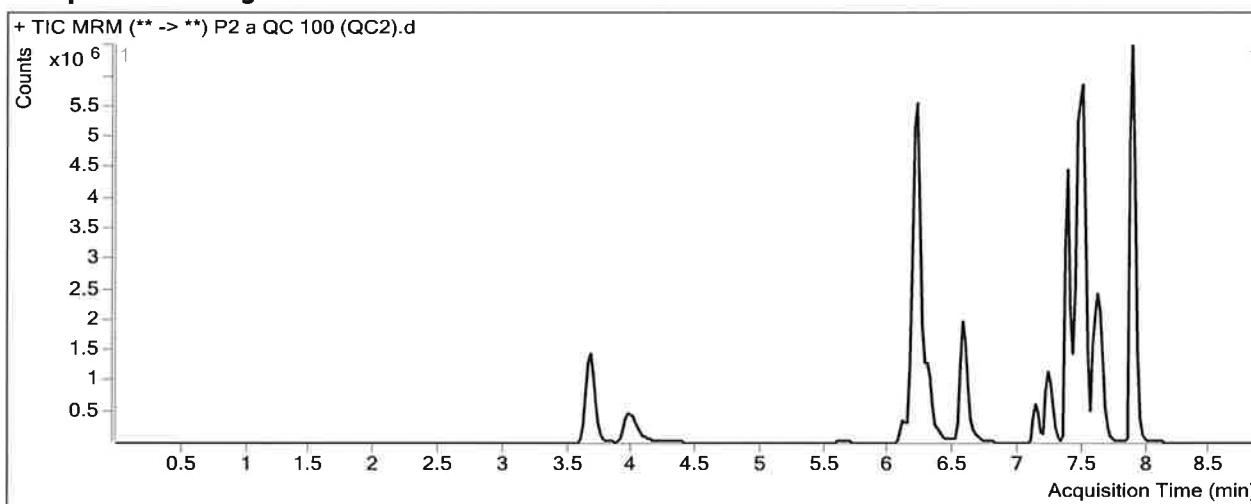
Multi-Drug Confirmatory Analysis Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\052918 MDQ P1 P2 TS\QuantResults\052918 MDQ P2a worklist 2428 TS
Analysis Time 6/6/2018 11:39 AM **Analyst Name** ISPUser
Report Time 6/6/2018 11:44 AM **Reporter Name** ISPUser
Last Calib Update 6/6/2018 11:39 AM **Batch State** Processed

Analysis Info

Acq Time 2018-05-29 18:10 **Data File** P2 a QC 100 (QC2).d
Sample Type QC **Sample Name** P2 a QC 100 (QC2).d
Dilution 1 **Acq Method** MDQ Panel 2a 5-29-18.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	3.676	4975248	2040521	2.4382	96.1290
Levamisole	Benzoylcegonine-d8	3.965	1962057	37363	52.5140	92.5297
Benzoylcegonine	Benzoylcegonine-d8	5.677	82799	37363	2.2161	92.9100
Zopiclone	Zopiclone-D4	6.089	825007	317110	2.6016	93.2597
Cocaine	Cocaine-D3	6.172	5081921	1873586	2.7124	98.1254
Methylphenidate	Methylphenidate-D4	6.228	10032836	3306770	3.0340	100.8801
Metoprolol	Methylphenidate-D4	6.244	1128199	3306770	0.3412	105.1438
Ondansetron	Carbamazepine-13C6	6.294	2817774	4415162	0.6382	100.1660
Mirtazapine	Carbamazepine-13C6	6.567	4673605	4415162	1.0585	106.7289
Mitragynine	Doxepin-D3	7.113	1756667	1221152	1.4385	93.7629
Doxepin	Doxepin-D3	7.225	2509379	1221152	2.0549	97.6987
Carbamazepine	Carbamazepine-13C6	7.394	7538421	4415162	1.7074	100.3634
Protriptyline	Protriptyline-d3	7.452	2269177	990960	2.2899	101.9338
Estazolam	Estazolam-D5	7.484	2762891	1355550	2.0382	92.5449
Amitriptyline	Amitriptyline-D3	7.487	4528712	1035989	4.3714	99.5120
Maprotiline	Nortriptyline-d3	7.487	4555908	844924	5.3921	96.8577
Nortriptyline	Nortriptyline-d3	7.492	1694056	844924	2.0050	94.9660
alpha-hydroxymidazolam	alpha-hydroxymidazolam-D4	7.579	2628829	1346951	1.9517	112.3413
Midazolam	Midazolam-D4	7.620	1007226	1436235	0.7013	96.7751

TS

ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report P2 a QC 100 (QC2)

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Chlordiazepoxide	Chlordiazepoxide-D5	7.623	1314076	1416056	0.9280	95.0007
Phenazepam	Phenazepam-D4	7.657	365632	40884	8.9432	105.2640
Prazepam	Prazepam-D5	7.883	12305707	5518973	2.2297	112.8137

TS

ISP FORENSICS - Pocatello Instrument # 59740

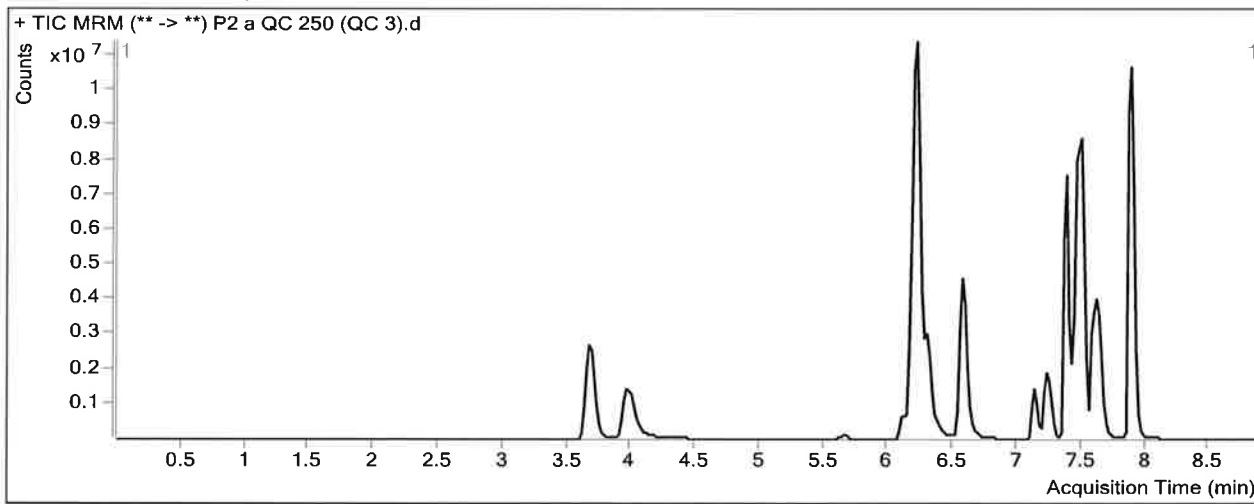
Multi-Drug Confirmatory Analysis Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\052918 MDQ P1 P2 TS\QuantResults\052918 MDQ P2a worklist 2428 TS
Analysis Time 6/6/2018 11:39 AM **Analyst Name** ISPUser
Report Time 6/6/2018 11:44 AM **Reporter Name** ISPUser
Last Calib Update 6/6/2018 11:39 AM **Batch State** Processed

Analysis Info

Acq Time 2018-05-29 19:13 **Data File** P2 a QC 250 (QC 3).d
Sample Type QC **Sample Name** P2 a QC 250 (QC 3).d
Dilution 1 **Acq Method** MDQ Panel 2a 5-29-18.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	3.676	10925740	1742837	6.2689	244.4465
Levamisole	Benzoylecgonine-d8	3.965	5079946	36420	139.4820	243.3115
Benzoylecgonine	Benzoylecgonine-d8	5.677	253860	36420	6.9703	289.5844
Zopiclone	Zopiclone-D4	6.109	1734092	260407	6.6592	235.5410
Cocaine	Cocaine-D3	6.172	12576121	1839090	6.8382	245.4455
Methylphenidate	Methylphenidate-D4	6.228	23384529	2966456	7.8830	261.9552
Metoprolol	Methylphenidate-D4	6.244	2438524	2966456	0.8220	253.3353
Ondansetron	Carbamazepine-13C6	6.294	6779539	3685598	1.8395	283.8234
Mirtazapine	Carbamazepine-13C6	6.567	10608478	3685598	2.8784	286.4233
Mitragynine	Doxepin-D3	7.113	3786015	941100	4.0230	257.8690
Doxepin	Doxepin-D3	7.225	4983857	941100	5.2958	248.9154
Carbamazepine	Carbamazepine-13C6	7.394	16073479	3685598	4.3612	255.7859
Protriptyline	Protriptyline-d3	7.452	3625171	625916	5.7918	256.0812
Estazolam	Estazolam-D5	7.484	5719245	1071039	5.3399	239.3216
Amitriptyline	Amitriptyline-D3	7.487	6995662	649290	10.7743	244.6099
Maprotiline	Nortriptyline-d3	7.487	7126517	502807	14.1735	252.2188
Nortriptyline	Nortriptyline-d3	7.492	2652190	502807	5.2748	246.8038
alpha-hydroxymidazolam	alpha-hydroxymidazolam-D4	7.579	5686137	1227194	4.6334	266.0899
Midazolam	Midazolam-D4	7.620	2384210	1340921	1.7780	242.7261

ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report *P2 a QC 250 (QC3)*

TS

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Chlordiazepoxide	Chlordiazepoxide-D5	7.623	2848812	1168228	2.4386	247.3689
Phenazepam	Phenazepam-D4	7.657	679374	29701	22.8736	268.8838
Prazepam	Prazepam-D5	7.883	25158558	4562969	5.5136	280.7692

ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report

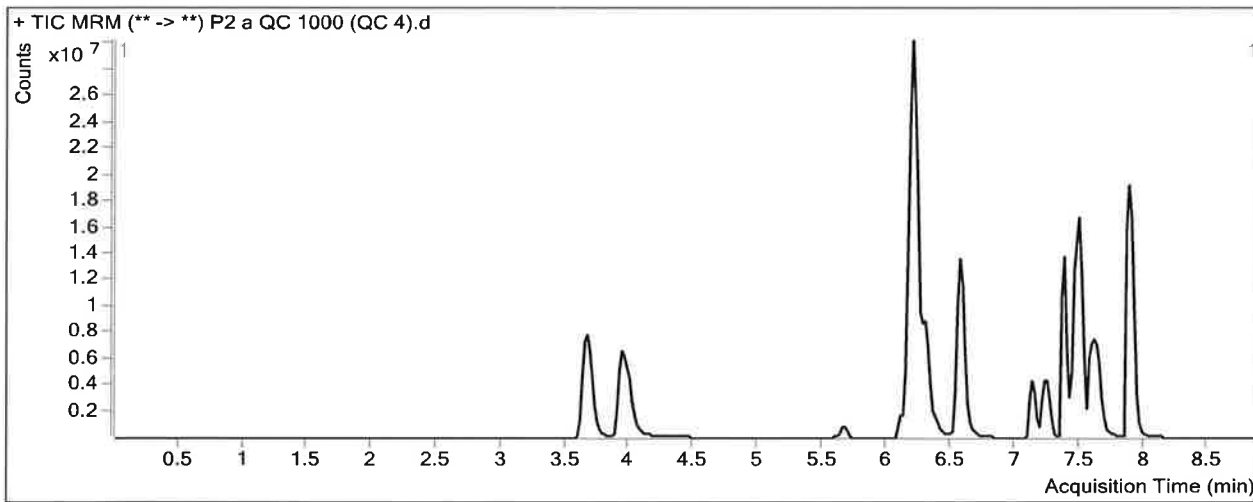
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Analysis Time 6/6/2018 11:39 AM **Analyst Name** ISPUser
Report Time 6/6/2018 11:44 AM **Reporter Name** ISPUser
Last Calib Update 6/6/2018 11:39 AM **Batch State** Processed

Analysis Info

Acq Time 2018-05-29 20:15 **Data File** P2 a QC 1000 (QC 4).d
Sample Type QC **Sample Name** P2 a QC 1000 (QC 4).d
Dilution 1 **Acq Method** MDQ Panel 2a 5-29-18.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	3.676	37750224	1403104	26.9048	1043.4251
Levamisole	Benzoylcegonine-d8	3.945	21171721	40270	525.7495	913.0068
Benzoylcegonine	Benzoylcegonine-d8	5.677	1869625	40270	46.4277	1921.8644 <i>outside curve range. TS</i>
Zopiclone	Zopiclone-D4	6.109	4927361	173174	28.4533	999.7767
Cocaine	Cocaine-D3	6.172	44461056	1596875	27.8425	995.4420
Methylphenidate	Methylphenidate-D4	6.228	59033058	2132749	27.6793	919.5602
Metoprolol	Methylphenidate-D4	6.244	6038358	2132749	2.8313	872.5455
Ondansetron	Carbamazepine-13C6	6.294	22530478	1995951	11.2881	1728.3939 <i>outside curve range. TS</i>
Mirtazapine	Carbamazepine-13C6	6.567	33603751	1995951	16.8360	1664.6344 <i>outside curve range. TS</i>
Mitragynine	Doxepin-D3	7.113	12743547	598815	21.2813	1353.7349 <i>outside curve range. TS</i>
Doxepin	Doxepin-D3	7.245	13010593	598815	21.7272	1015.5998
Carbamazepine	Carbamazepine-13C6	7.394	34216842	1995951	17.1431	1004.3850
Protriptyline	Protriptyline-d3	7.472	6745684	284070	23.7466	1046.4161
Estazolam	Estazolam-D5	7.484	12230862	513966	23.7970	1059.8307
Amitriptyline	Amitriptyline-D3	7.487	14594602	339216	43.0245	975.4351
Maprotiline	Nortriptyline-d3	7.487	14678885	236808	61.9865	1098.1321 <i>outside curve range. TS</i>
Nortriptyline	Nortriptyline-d3	7.492	5490880	236808	23.1871	1078.5897
alpha-hydroxymidazolam	alpha-hydroxymidazolam-D4	7.579	13208090	727275	18.1611	1041.6464
Midazolam	Midazolam-D4	7.620	7400415	962557	7.6883	1043.8517

TS

ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report P2 a QC 1000 (QC4)

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Chlordiazepoxide	Chlordiazepoxide-D5	7.643	6276525	593839	10.5694	1067.4981
Phenazepam	Phenazepam-D4	7.677	1455298	18987	76.6460	900.4712
Prazepam	Prazepam-D5	7.883	56241469	3113246	18.0652	922.7155

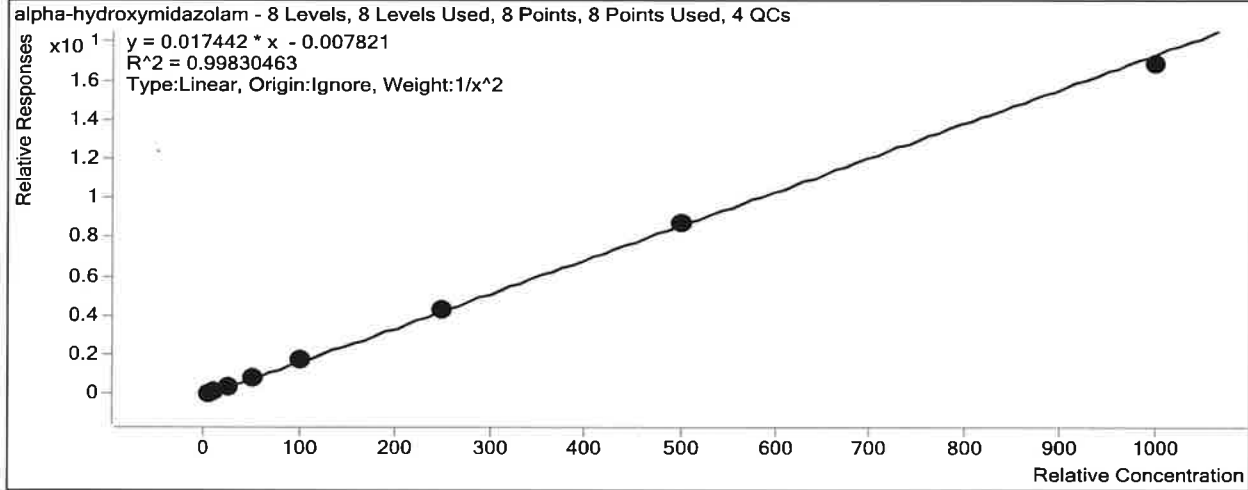
ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\052918 MDQ P1 P2 TS\QuantResults\052918 MDQ P2a
worklist 2428 TS.batch.bin

Last Calib Update 6/6/2018 11:39 AM **Analyst Name** ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng.d	1	<input checked="" type="checkbox"/>	5	5.1	102.8
P2 a cal 2-10ng.d	2	<input checked="" type="checkbox"/>	10	9.4	94.5
P2 a QC 10 (QC1).d	2	<input checked="" type="checkbox"/>	10	10.7	106.8
P2 a cal 3-25ng.d	3	<input checked="" type="checkbox"/>	25	24.3	97.1
P2 a cal 4-50ng.d	4	<input checked="" type="checkbox"/>	50	51.8	103.5
P2 a cal 5-100ng.d	5	<input checked="" type="checkbox"/>	100	104.2	104.2
P2 a QC 100 (QC2).d	5	<input checked="" type="checkbox"/>	100	112.3	112.3
P2 a cal 6-250ng.d	6	<input checked="" type="checkbox"/>	250	251.6	100.6
P2 a QC 250 (QC 3).d	6	<input checked="" type="checkbox"/>	250	266.1	106.4
P2 a cal 7-500ng.d	7	<input checked="" type="checkbox"/>	500	504.2	100.8
P2 a cal 8-1000ng.d	8	<input checked="" type="checkbox"/>	1000	965.3	96.5
P2 a QC 1000 (QC 4).d	8	<input checked="" type="checkbox"/>	1000	1041.6	104.2

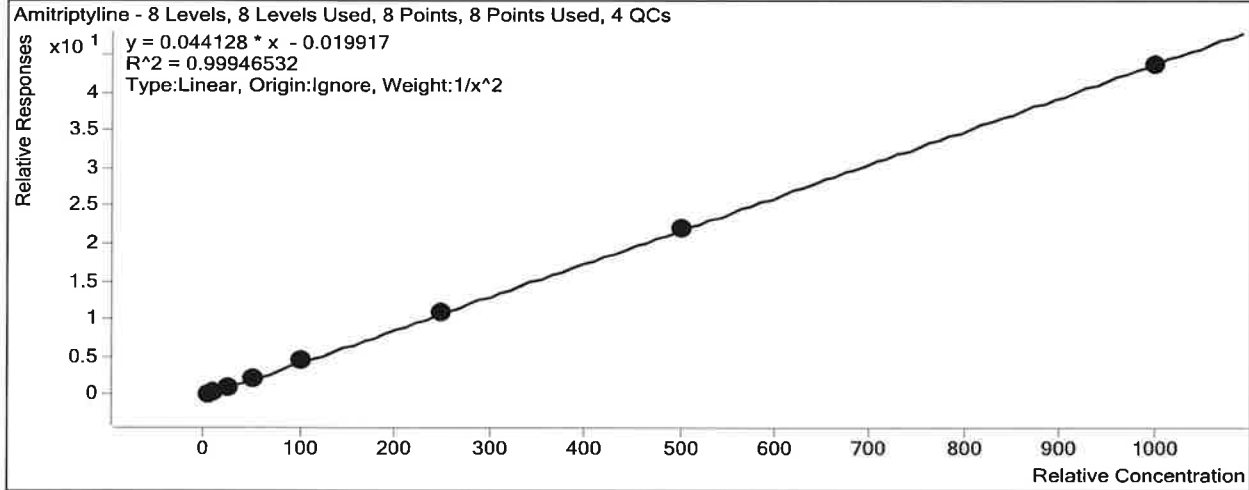
ISP Forensics Calibration Curve Report

15

Batch Data Path C:\MassHunter\Data\2018\MD Quant\052918 MDQ P1 P2 TS\QuantResults\052918 MDQ P2a
worklist 2428 TS.batch.bin

Last Calib Update 6/6/2018 11:39 AM **Analyst Name** ISP TOX

Target Compound Amitriptyline
Internal Standard Amitriptyline-D3



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng.d	1	<input checked="" type="checkbox"/>	5	5.1	101.0
P2 a cal 2-10ng.d	2	<input checked="" type="checkbox"/>	10	9.8	98.2
P2 a QC 10 (QC1).d	2	<input checked="" type="checkbox"/>	10	9.9	98.9
P2 a cal 3-25ng.d	3	<input checked="" type="checkbox"/>	25	24.3	97.4
P2 a cal 4-50ng.d	4	<input checked="" type="checkbox"/>	50	51.4	102.7
P2 a cal 5-100ng.d	5	<input checked="" type="checkbox"/>	100	102.8	102.8
P2 a QC 100 (QC2).d	5	<input checked="" type="checkbox"/>	100	99.5	99.5
P2 a cal 6-250ng.d	6	<input checked="" type="checkbox"/>	250	247.5	99.0
P2 a QC 250 (QC 3).d	6	<input checked="" type="checkbox"/>	250	244.6	97.8
P2 a cal 7-500ng.d	7	<input checked="" type="checkbox"/>	500	498.9	99.8
P2 a cal 8-1000ng.d	8	<input checked="" type="checkbox"/>	1000	991.3	99.1
P2 a QC 1000 (QC 4).d	8	<input checked="" type="checkbox"/>	1000	975.4	97.5

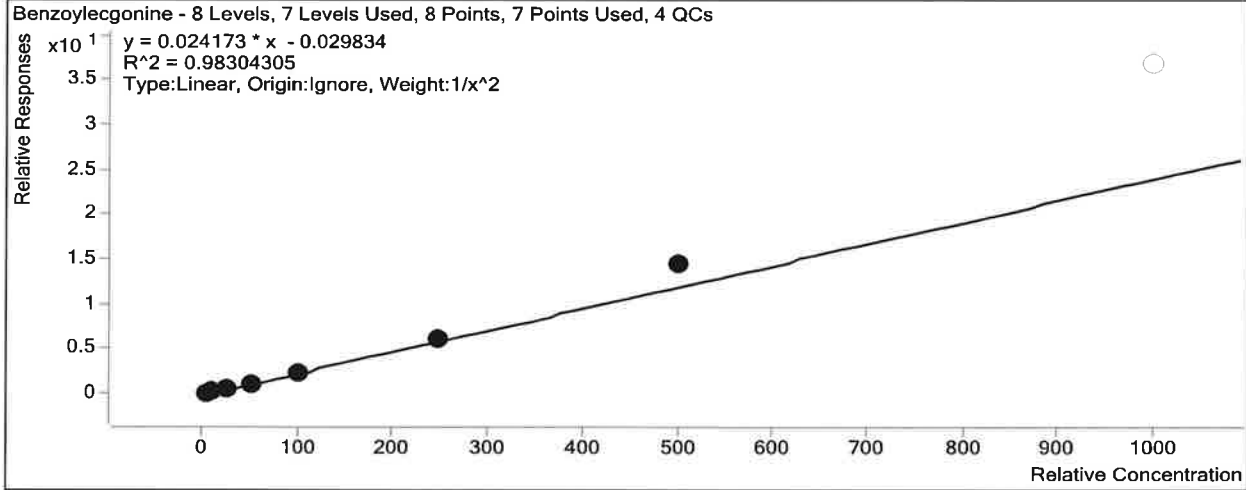
ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\052918 MDQ P1 P2 TS\QuantResults\052918 MDQ P2a
worklist 2428 TS.batch.bin

Last Calib Update 6/6/2018 11:39 AM **Analyst Name** ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng.d	1	<input checked="" type="checkbox"/>	5	5.3	105.6
P2 a cal 2-10ng.d	2	<input checked="" type="checkbox"/>	10	9.6	96.2
P2 a QC 10 (QC1).d	2	<input checked="" type="checkbox"/>	10	9.4	94.0
P2 a cal 3-25ng.d	3	<input checked="" type="checkbox"/>	25	20.9	83.5
P2 a cal 4-50ng.d	4	<input checked="" type="checkbox"/>	50	47.3	94.5
P2 a cal 5-100ng.d	5	<input checked="" type="checkbox"/>	100	99.3	99.3
P2 a QC 100 (QC2).d	5	<input checked="" type="checkbox"/>	100	92.9	92.9
P2 a cal 6-250ng.d	6	<input checked="" type="checkbox"/>	250	253.0	101.2
P2 a QC 250 (QC 3).d	6	<input checked="" type="checkbox"/>	250	289.6	115.8
P2 a cal 7-500ng.d	7	<input checked="" type="checkbox"/>	500	598.6	119.7
P2 a cal 8-1000ng.d	8	<input type="checkbox"/>	1000	1522.2	152.2
P2 a QC 1000 (QC 4).d	8	<input checked="" type="checkbox"/>	1000	1921.9	192.2

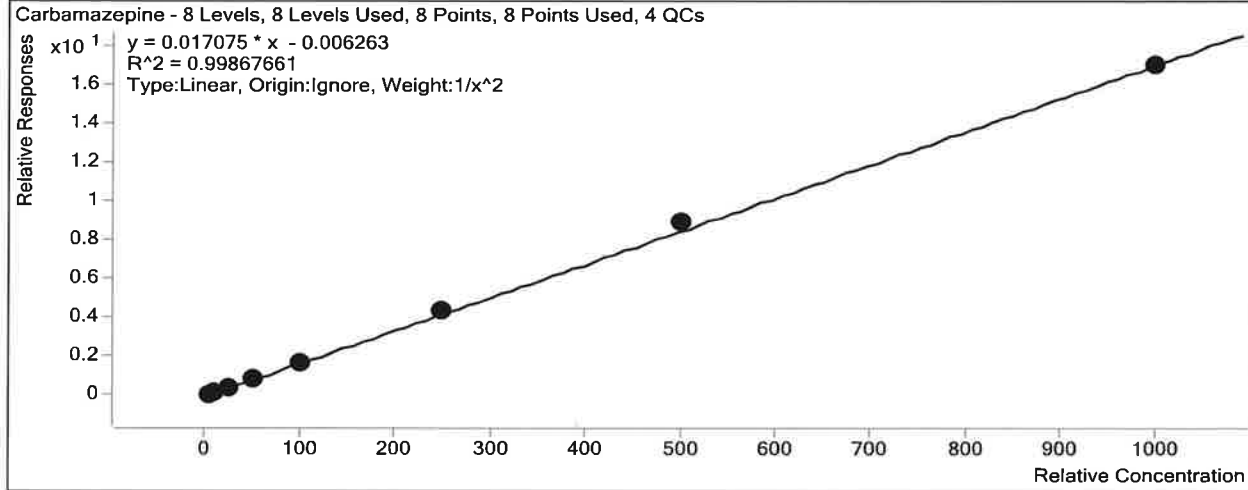
ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\052918 MDQ P1 P2 TS\QuantResults\052918 MDQ P2a
worklist 2428 TS.batch.bin

Last Calib Update 6/6/2018 11:39 AM **Analyst Name** ISP TOX

Target Compound Carbamazepine
Internal Standard Carbamazepine-13C6



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng.d	1	<input checked="" type="checkbox"/>	5	5.1	102.8
P2 a cal 2-10ng.d	2	<input checked="" type="checkbox"/>	10	9.6	96.3
P2 a QC 10 (QC1).d	2	<input checked="" type="checkbox"/>	10	9.7	97.0
P2 a cal 3-25ng.d	3	<input checked="" type="checkbox"/>	25	23.8	95.1
P2 a cal 4-50ng.d	4	<input checked="" type="checkbox"/>	50	49.9	99.8
P2 a cal 5-100ng.d	5	<input checked="" type="checkbox"/>	100	99.8	99.8
P2 a QC 100 (QC2).d	5	<input checked="" type="checkbox"/>	100	100.4	100.4
P2 a cal 6-250ng.d	6	<input checked="" type="checkbox"/>	250	257.1	102.8
P2 a QC 250 (QC 3).d	6	<input checked="" type="checkbox"/>	250	255.8	102.3
P2 a cal 7-500ng.d	7	<input checked="" type="checkbox"/>	500	520.2	104.0
P2 a cal 8-1000ng.d	8	<input checked="" type="checkbox"/>	1000	993.7	99.4
P2 a QC 1000 (QC 4).d	8	<input checked="" type="checkbox"/>	1000	1004.4	100.4

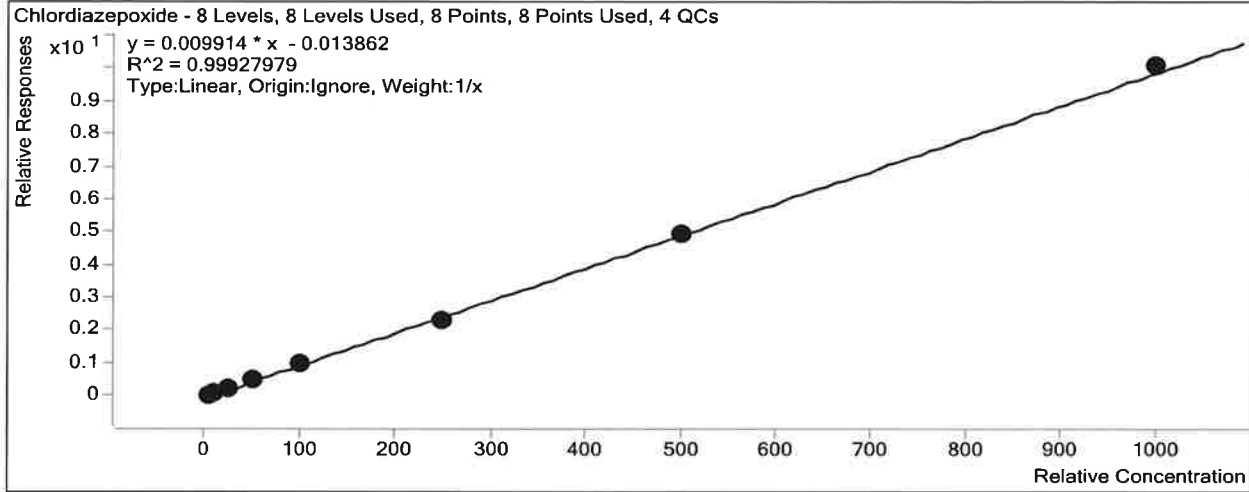
ISP Forensics Calibration Curve Report

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Batch Data Path C:\MassHunter\Data\2018\MD Quant\052918 MDQ P1 P2 TS\QuantResults\052918 MDQ P2a
worklist 2428 TS.batch.bin

Last Calib Update 6/6/2018 11:39 AM **Analyst Name** ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng.d	1	<input checked="" type="checkbox"/>	5	5.7	114.6
P2 a cal 2-10ng.d	2	<input checked="" type="checkbox"/>	10	9.5	95.0
P2 a QC 10 (QC1).d	2	<input checked="" type="checkbox"/>	10	10.4	103.8
P2 a cal 3-25ng.d	3	<input checked="" type="checkbox"/>	25	23.9	95.6
P2 a cal 4-50ng.d	4	<input checked="" type="checkbox"/>	50	50.2	100.4
P2 a cal 5-100ng.d	5	<input checked="" type="checkbox"/>	100	98.5	98.5
P2 a QC 100 (QC2).d	5	<input checked="" type="checkbox"/>	100	95.0	95.0
P2 a cal 6-250ng.d	6	<input checked="" type="checkbox"/>	250	235.9	94.4
P2 a QC 250 (QC 3).d	6	<input checked="" type="checkbox"/>	250	247.4	98.9
P2 a cal 7-500ng.d	7	<input checked="" type="checkbox"/>	500	499.7	99.9
P2 a cal 8-1000ng.d	8	<input checked="" type="checkbox"/>	1000	1016.6	101.7
P2 a QC 1000 (QC 4).d	8	<input checked="" type="checkbox"/>	1000	1067.5	106.7

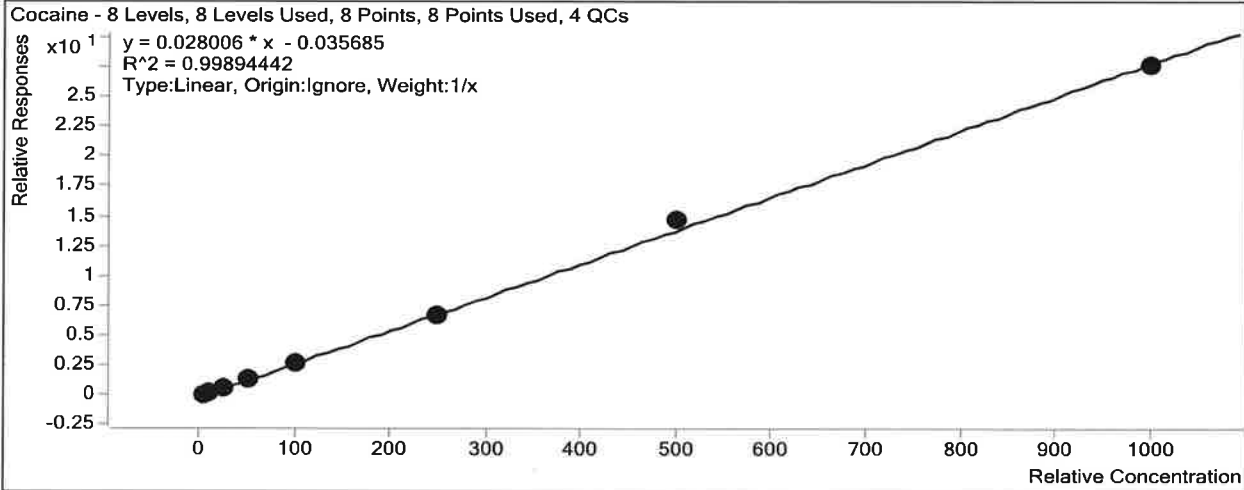
ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\052918 MDQ P1 P2 TS\QuantResults\052918 MDQ P2a
worklist 2428 TS.batch.bin

Last Calib Update 6/6/2018 11:39 AM **Analyst Name** ISP TOX

Target Compound Cocaine
Internal Standard Cocaine-D3



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng.d	1	<input checked="" type="checkbox"/>	5	5.6	111.2
P2 a cal 2-10ng.d	2	<input checked="" type="checkbox"/>	10	9.9	99.0
P2 a QC 10 (QC1).d	2	<input checked="" type="checkbox"/>	10	10.1	100.9
P2 a cal 3-25ng.d	3	<input checked="" type="checkbox"/>	25	23.7	94.8
P2 a cal 4-50ng.d	4	<input checked="" type="checkbox"/>	50	48.8	97.6
P2 a cal 5-100ng.d	5	<input checked="" type="checkbox"/>	100	96.2	96.2
P2 a QC 100 (QC2).d	5	<input checked="" type="checkbox"/>	100	98.1	98.1
P2 a cal 6-250ng.d	6	<input checked="" type="checkbox"/>	250	243.7	97.5
P2 a QC 250 (QC 3).d	6	<input checked="" type="checkbox"/>	250	245.4	98.2
P2 a cal 7-500ng.d	7	<input checked="" type="checkbox"/>	500	525.0	105.0
P2 a cal 8-1000ng.d	8	<input checked="" type="checkbox"/>	1000	987.1	98.7
P2 a QC 1000 (QC 4).d	8	<input checked="" type="checkbox"/>	1000	995.4	99.5

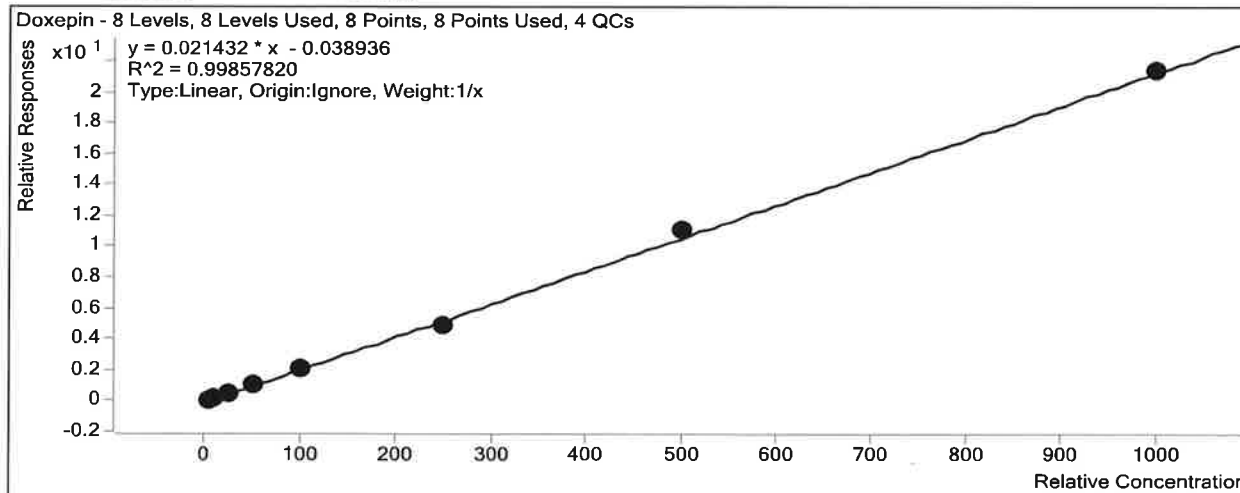
ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\052918 MDQ P1 P2 TS\QuantResults\052918 MDQ P2a
worklist 2428 TS.batch.bin

Last Calib Update 6/6/2018 11:39 AM **Analyst Name** ISP TOX

Target Compound Doxepin
Internal Standard Doxepin-D3



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng.d	1	<input checked="" type="checkbox"/>	5	5.8	115.1
P2 a cal 2-10ng.d	2	<input checked="" type="checkbox"/>	10	9.8	98.1
P2 a QC 10 (QC1).d	2	<input checked="" type="checkbox"/>	10	10.3	102.7
P2 a cal 3-25ng.d	3	<input checked="" type="checkbox"/>	25	23.7	94.7
P2 a cal 4-50ng.d	4	<input checked="" type="checkbox"/>	50	48.2	96.4
P2 a cal 5-100ng.d	5	<input checked="" type="checkbox"/>	100	98.4	98.4
P2 a QC 100 (QC2).d	5	<input checked="" type="checkbox"/>	100	97.7	97.7
P2 a cal 6-250ng.d	6	<input checked="" type="checkbox"/>	250	232.3	92.9
P2 a QC 250 (QC 3).d	6	<input checked="" type="checkbox"/>	250	248.9	99.6
P2 a cal 7-500ng.d	7	<input checked="" type="checkbox"/>	500	522.2	104.4
P2 a cal 8-1000ng.d	8	<input checked="" type="checkbox"/>	1000	999.8	100.0
P2 a QC 1000 (QC 4).d	8	<input checked="" type="checkbox"/>	1000	1015.6	101.6

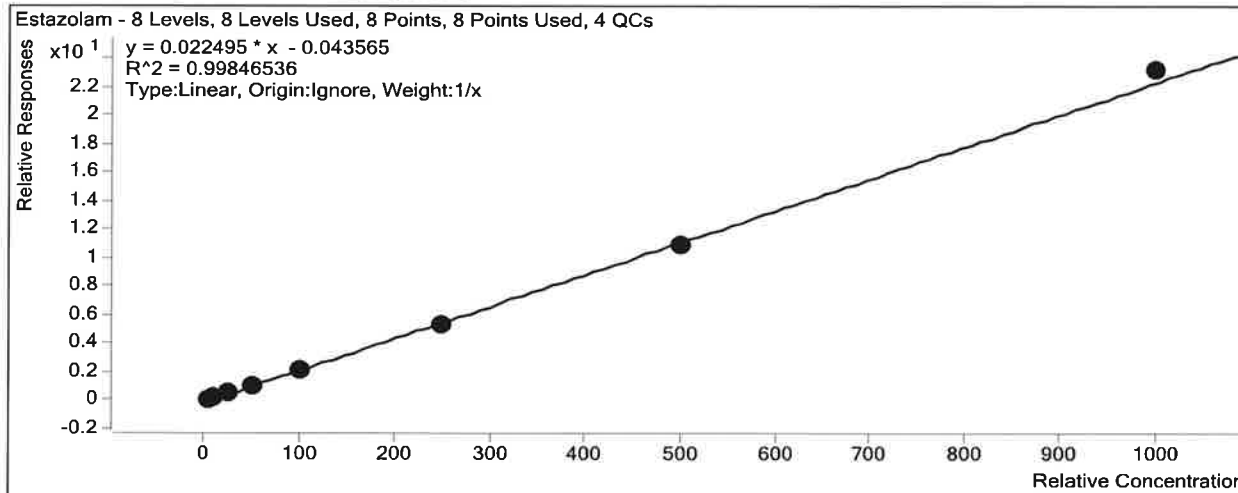
ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\052918 MDQ P1 P2 TS\QuantResults\052918 MDQ P2a
worklist 2428 TS.batch.bin

Last Calib Update 6/6/2018 11:39 AM **Analyst Name** ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng.d	1	<input checked="" type="checkbox"/>	5	6.0	119.7
P2 a cal 2-10ng.d	2	<input checked="" type="checkbox"/>	10	10.2	102.0
P2 a QC 10 (QC1).d	2	<input checked="" type="checkbox"/>	10	10.4	104.0
P2 a cal 3-25ng.d	3	<input checked="" type="checkbox"/>	25	23.3	93.0
P2 a cal 4-50ng.d	4	<input checked="" type="checkbox"/>	50	47.4	94.8
P2 a cal 5-100ng.d	5	<input checked="" type="checkbox"/>	100	94.3	94.3
P2 a QC 100 (QC2).d	5	<input checked="" type="checkbox"/>	100	92.5	92.5
P2 a cal 6-250ng.d	6	<input checked="" type="checkbox"/>	250	238.1	95.2
P2 a QC 250 (QC 3).d	6	<input checked="" type="checkbox"/>	250	239.3	95.7
P2 a cal 7-500ng.d	7	<input checked="" type="checkbox"/>	500	487.9	97.6
P2 a cal 8-1000ng.d	8	<input checked="" type="checkbox"/>	1000	1032.9	103.3
P2 a QC 1000 (QC 4).d	8	<input checked="" type="checkbox"/>	1000	1059.8	106.0

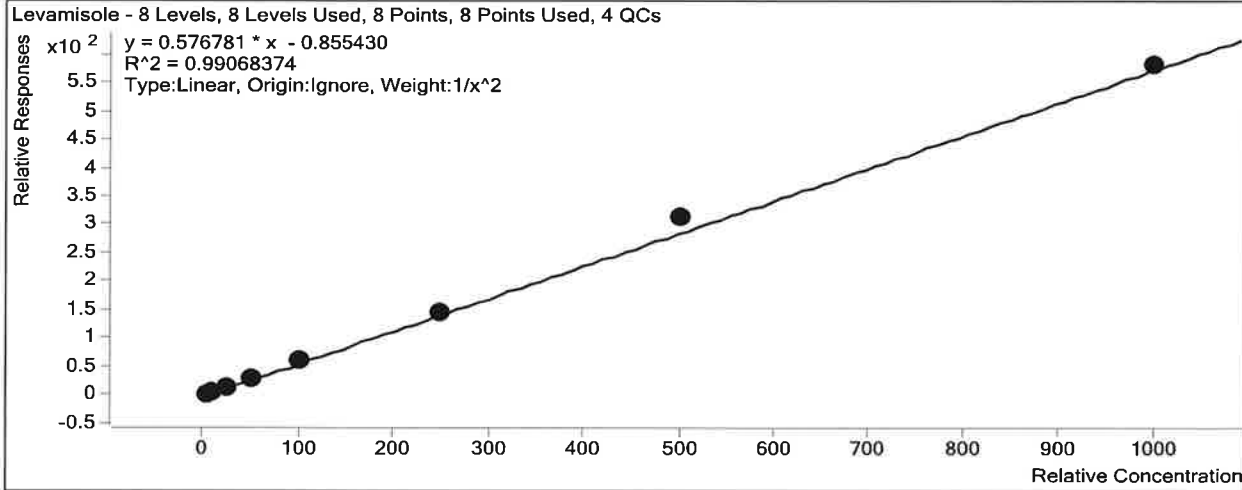
ISP Forensics Calibration Curve Report

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Batch Data Path C:\MassHunter\Data\2018\MD Quant\052918 MDQ P1 P2 TS\QuantResults\052918 MDQ P2a
worklist 2428 TS.batch.bin

Last Calib Update 6/6/2018 11:39 AM **Analyst Name** ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng.d	1	<input checked="" type="checkbox"/>	5	5.3	106.8
P2 a cal 2-10ng.d	2	<input checked="" type="checkbox"/>	10	9.2	91.8
P2 a QC 10 (QC1).d	2	<input checked="" type="checkbox"/>	10	8.8	88.4
P2 a cal 3-25ng.d	3	<input checked="" type="checkbox"/>	25	20.9	83.7
P2 a cal 4-50ng.d	4	<input checked="" type="checkbox"/>	50	51.2	102.4
P2 a cal 5-100ng.d	5	<input checked="" type="checkbox"/>	100	105.1	105.1
P2 a QC 100 (QC2).d	5	<input checked="" type="checkbox"/>	100	92.5	92.5
P2 a cal 6-250ng.d	6	<input checked="" type="checkbox"/>	250	250.1	100.0
P2 a QC 250 (QC 3).d	6	<input checked="" type="checkbox"/>	250	243.3	97.3
P2 a cal 7-500ng.d	7	<input checked="" type="checkbox"/>	500	545.9	109.2
P2 a cal 8-1000ng.d	8	<input checked="" type="checkbox"/>	1000	1009.8	101.0
P2 a QC 1000 (QC 4).d	8	<input checked="" type="checkbox"/>	1000	913.0	91.3

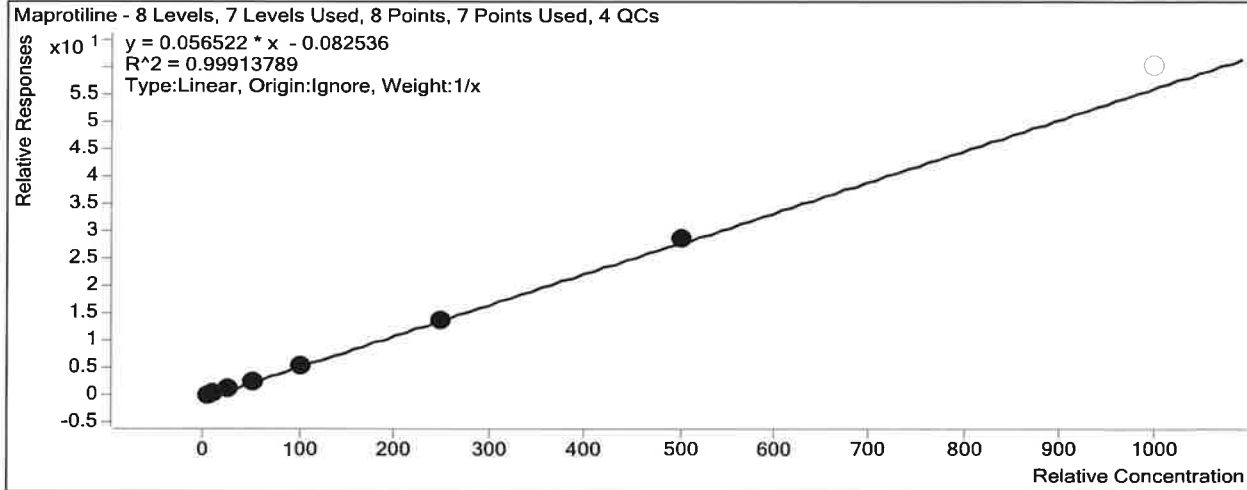
ISP Forensics Calibration Curve Report

15

Batch Data Path C:\MassHunter\Data\2018\MD Quant\052918 MDQ P1 P2 TS\QuantResults\052918 MDQ P2a
worklist 2428 TS.batch.bin

Last Calib Update 6/6/2018 11:39 AM **Analyst Name** ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng.d	1	<input checked="" type="checkbox"/>	5	5.8	115.4
P2 a cal 2-10ng.d	2	<input checked="" type="checkbox"/>	10	10.0	100.1
P2 a QC 10 (QC1).d	2	<input checked="" type="checkbox"/>	10	10.0	99.8
P2 a cal 3-25ng.d	3	<input checked="" type="checkbox"/>	25	23.1	92.6
P2 a cal 4-50ng.d	4	<input checked="" type="checkbox"/>	50	47.2	94.3
P2 a cal 5-100ng.d	5	<input checked="" type="checkbox"/>	100	96.4	96.4
P2 a QC 100 (QC2).d	5	<input checked="" type="checkbox"/>	100	96.9	96.9
P2 a cal 6-250ng.d	6	<input checked="" type="checkbox"/>	250	248.9	99.6
P2 a QC 250 (QC 3).d	6	<input checked="" type="checkbox"/>	250	252.2	100.9
P2 a cal 7-500ng.d	7	<input checked="" type="checkbox"/>	500	508.6	101.7
P2 a cal 8-1000ng.d	8	<input type="checkbox"/>	1000	1066.3	106.6
P2 a QC 1000 (QC 4).d	8	<input checked="" type="checkbox"/>	1000	1098.1	109.8

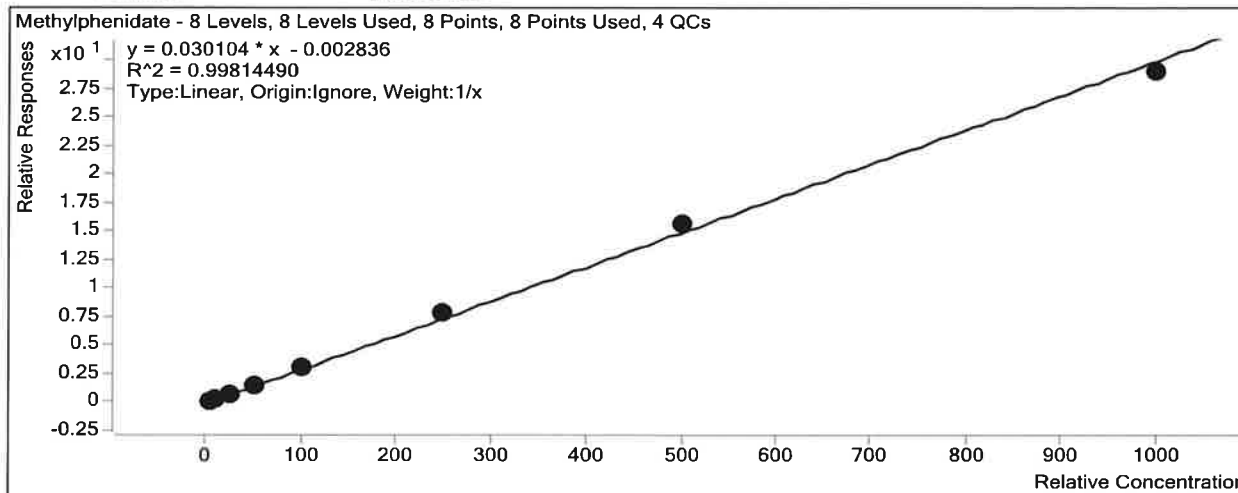
ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\052918 MDQ P1 P2 TS\QuantResults\052918 MDQ P2a
worklist 2428 TS.batch.bin

Last Calib Update 6/6/2018 11:39 AM **Analyst Name** ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng.d	1	<input checked="" type="checkbox"/>	5	4.9	98.1
P2 a cal 2-10ng.d	2	<input checked="" type="checkbox"/>	10	9.4	94.2
P2 a QC 10 (QC1).d	2	<input checked="" type="checkbox"/>	10	9.7	96.9
P2 a cal 3-25ng.d	3	<input checked="" type="checkbox"/>	25	23.8	95.1
P2 a cal 4-50ng.d	4	<input checked="" type="checkbox"/>	50	51.1	102.3
P2 a cal 5-100ng.d	5	<input checked="" type="checkbox"/>	100	104.4	104.4
P2 a QC 100 (QC2).d	5	<input checked="" type="checkbox"/>	100	100.9	100.9
P2 a cal 6-250ng.d	6	<input checked="" type="checkbox"/>	250	264.1	105.7
P2 a QC 250 (QC 3).d	6	<input checked="" type="checkbox"/>	250	262.0	104.8
P2 a cal 7-500ng.d	7	<input checked="" type="checkbox"/>	500	519.7	103.9
P2 a cal 8-1000ng.d	8	<input checked="" type="checkbox"/>	1000	962.5	96.3
P2 a QC 1000 (QC 4).d	8	<input checked="" type="checkbox"/>	1000	919.6	92.0

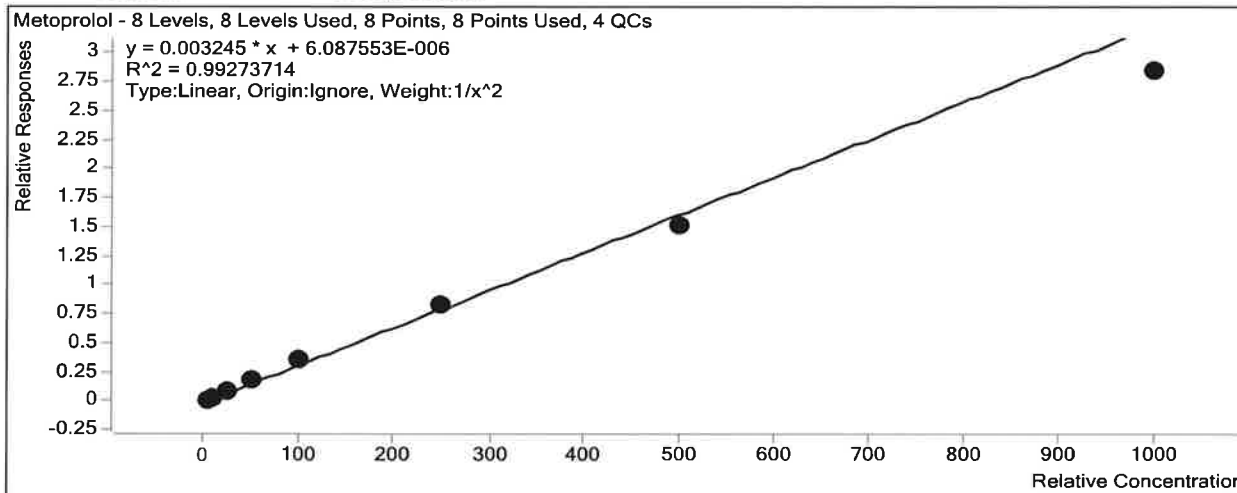
ISP Forensics Calibration Curve Report

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Batch Data Path C:\MassHunter\Data\2018\MD Quant\052918 MDQ P1 P2 TS\QuantResults\052918 MDQ P2a
worklist 2428 TS.batch.bin

Last Calib Update 6/6/2018 11:39 AM **Analyst Name** ISP TOX

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



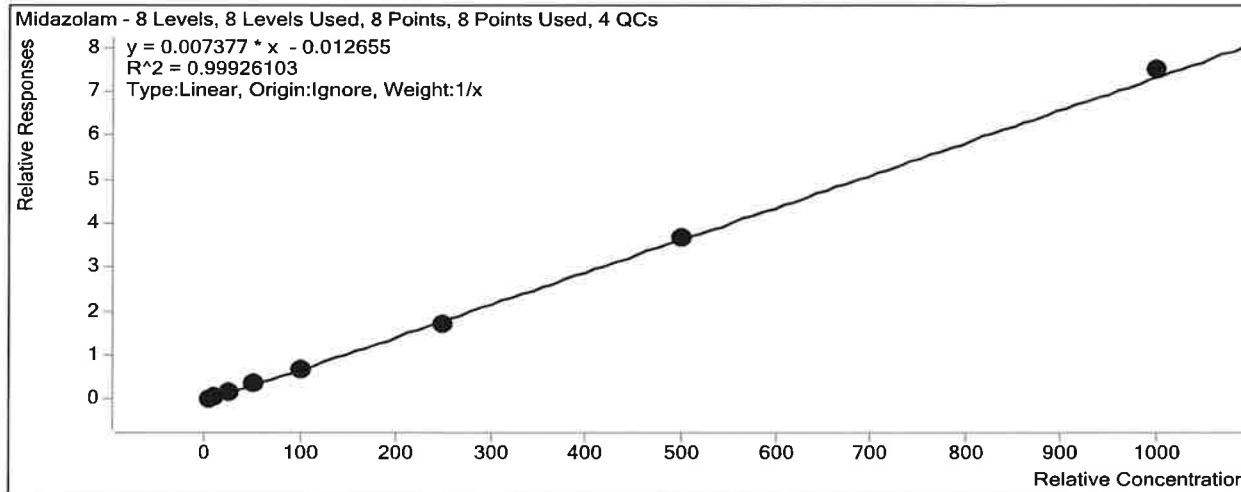
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng.d	1	<input checked="" type="checkbox"/>	5	5.0	100.1
P2 a cal 2-10ng.d	2	<input checked="" type="checkbox"/>	10	9.6	95.8
P2 a QC 10 (QC1).d	2	<input checked="" type="checkbox"/>	10	10.4	104.5
P2 a cal 3-25ng.d	3	<input checked="" type="checkbox"/>	25	26.1	104.2
P2 a cal 4-50ng.d	4	<input checked="" type="checkbox"/>	50	54.0	108.0
P2 a cal 5-100ng.d	5	<input checked="" type="checkbox"/>	100	109.2	109.2
P2 a QC 100 (QC2).d	5	<input checked="" type="checkbox"/>	100	105.1	105.1
P2 a cal 6-250ng.d	6	<input checked="" type="checkbox"/>	250	254.7	101.9
P2 a QC 250 (QC 3).d	6	<input checked="" type="checkbox"/>	250	253.3	101.3
P2 a cal 7-500ng.d	7	<input checked="" type="checkbox"/>	500	466.8	93.4
P2 a cal 8-1000ng.d	8	<input checked="" type="checkbox"/>	1000	875.2	87.5
P2 a QC 1000 (QC 4).d	8	<input checked="" type="checkbox"/>	1000	872.5	87.3

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ISP Forensics Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\052918 MDQ P1 P2 TS\QuantResults\052918 MDQ P2a
worklist 2428 TS.batch.bin
Last Calib Update 6/6/2018 11:39 AM **Analyst Name** ISP TOX

Target Compound Midazolam
Internal Standard Midazolam-D4



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng.d	1	<input checked="" type="checkbox"/>	5	5.7	113.1
P2 a cal 2-10ng.d	2	<input checked="" type="checkbox"/>	10	10.4	104.1
P2 a QC 10 (QC1).d	2	<input checked="" type="checkbox"/>	10	10.4	104.1
P2 a cal 3-25ng.d	3	<input checked="" type="checkbox"/>	25	23.0	91.9
P2 a cal 4-50ng.d	4	<input checked="" type="checkbox"/>	50	48.6	97.1
P2 a cal 5-100ng.d	5	<input checked="" type="checkbox"/>	100	96.8	96.8
P2 a QC 100 (QC2).d	5	<input checked="" type="checkbox"/>	100	96.8	96.8
P2 a cal 6-250ng.d	6	<input checked="" type="checkbox"/>	250	237.9	95.2
P2 a QC 250 (QC 3).d	6	<input checked="" type="checkbox"/>	250	242.7	97.1
P2 a cal 7-500ng.d	7	<input checked="" type="checkbox"/>	500	499.8	100.0
P2 a cal 8-1000ng.d	8	<input checked="" type="checkbox"/>	1000	1017.9	101.8
P2 a QC 1000 (QC 4).d	8	<input checked="" type="checkbox"/>	1000	1043.9	104.4

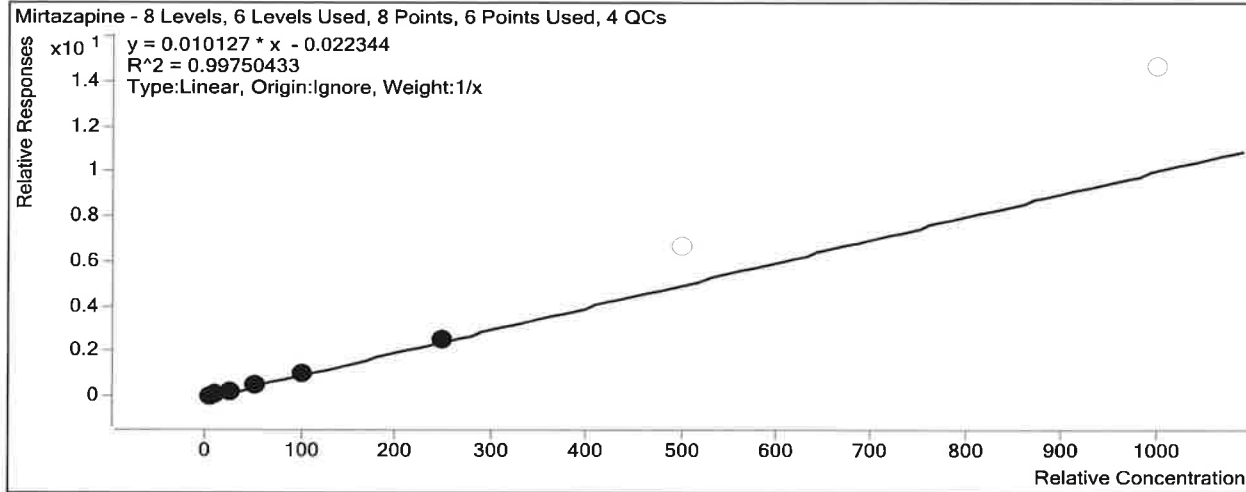
ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\052918 MDQ P1 P2 TS\QuantResults\052918 MDQ P2a
worklist 2428 TS.batch.bin

Last Calib Update 6/6/2018 11:39 AM **Analyst Name** ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng.d	1	<input checked="" type="checkbox"/>	5	5.9	117.3
P2 a cal 2-10ng.d	2	<input checked="" type="checkbox"/>	10	9.8	98.3
P2 a QC 10 (QC1).d	2	<input checked="" type="checkbox"/>	10	9.9	98.5
P2 a cal 3-25ng.d	3	<input checked="" type="checkbox"/>	25	22.0	87.9
P2 a cal 4-50ng.d	4	<input checked="" type="checkbox"/>	50	48.4	96.7
P2 a cal 5-100ng.d	5	<input checked="" type="checkbox"/>	100	97.0	97.0
P2 a QC 100 (QC2).d	5	<input checked="" type="checkbox"/>	100	106.7	106.7
P2 a cal 6-250ng.d	6	<input checked="" type="checkbox"/>	250	257.0	102.8
P2 a QC 250 (QC 3).d	6	<input checked="" type="checkbox"/>	250	286.4	114.6
P2 a cal 7-500ng.d	7	<input type="checkbox"/>	500	662.5	132.5
P2 a cal 8-1000ng.d	8	<input type="checkbox"/>	1000	1451.2	145.1
P2 a QC 1000 (QC 4).d	8	<input checked="" type="checkbox"/>	1000	1664.6	166.5

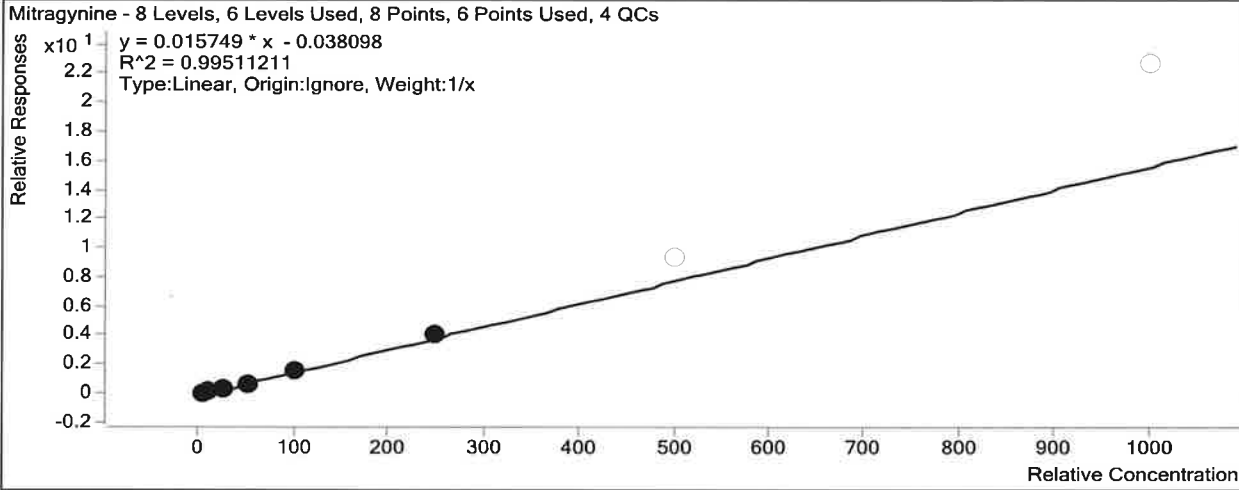
ISP Forensics Calibration Curve Report

13

Batch Data Path C:\MassHunter\Data\2018\MD Quant\052918 MDQ P1 P2 TS\QuantResults\052918 MDQ P2a
worklist 2428 TS.batch.bin

Last Calib Update 6/6/2018 11:39 AM **Analyst Name** ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng.d	1	<input checked="" type="checkbox"/>	5	6.2	124.7
P2 a cal 2-10ng.d	2	<input checked="" type="checkbox"/>	10	9.7	96.7
P2 a QC 10 (QC1).d	2	<input checked="" type="checkbox"/>	10	10.0	99.7
P2 a cal 3-25ng.d	3	<input checked="" type="checkbox"/>	25	21.9	87.5
P2 a cal 4-50ng.d	4	<input checked="" type="checkbox"/>	50	44.7	89.3
P2 a cal 5-100ng.d	5	<input checked="" type="checkbox"/>	100	98.0	98.0
P2 a QC 100 (QC2).d	5	<input checked="" type="checkbox"/>	100	93.8	93.8
P2 a cal 6-250ng.d	6	<input checked="" type="checkbox"/>	250	259.6	103.8
P2 a QC 250 (QC 3).d	6	<input checked="" type="checkbox"/>	250	257.9	103.1
P2 a cal 7-500ng.d	7	<input type="checkbox"/>	500	601.4	120.3
P2 a cal 8-1000ng.d	8	<input type="checkbox"/>	1000	1439.5	144.0
P2 a QC 1000 (QC 4).d	8	<input checked="" type="checkbox"/>	1000	1353.7	135.4

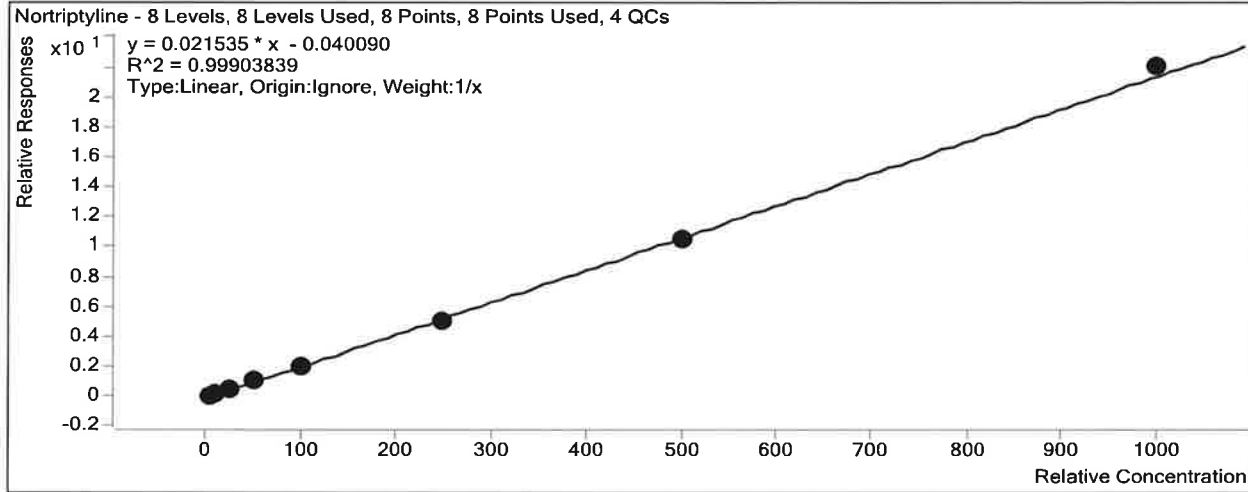
ISP Forensics Calibration Curve Report

13

Batch Data Path C:\MassHunter\Data\2018\MD Quant\052918 MDQ P1 P2 TS\QuantResults\052918 MDQ P2a
worklist 2428 TS.batch.bin

Last Calib Update 6/6/2018 11:39 AM **Analyst Name** ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng.d	1	<input checked="" type="checkbox"/>	5	5.8	115.9
P2 a cal 2-10ng.d	2	<input checked="" type="checkbox"/>	10	10.2	101.6
P2 a QC 10 (QC1).d	2	<input checked="" type="checkbox"/>	10	10.5	105.0
P2 a cal 3-25ng.d	3	<input checked="" type="checkbox"/>	25	23.1	92.4
P2 a cal 4-50ng.d	4	<input checked="" type="checkbox"/>	50	48.8	97.6
P2 a cal 5-100ng.d	5	<input checked="" type="checkbox"/>	100	96.1	96.1
P2 a QC 100 (QC2).d	5	<input checked="" type="checkbox"/>	100	95.0	95.0
P2 a cal 6-250ng.d	6	<input checked="" type="checkbox"/>	250	238.4	95.4
P2 a QC 250 (QC 3).d	6	<input checked="" type="checkbox"/>	250	246.8	98.7
P2 a cal 7-500ng.d	7	<input checked="" type="checkbox"/>	500	492.8	98.6
P2 a cal 8-1000ng.d	8	<input checked="" type="checkbox"/>	1000	1024.8	102.5
P2 a QC 1000 (QC 4).d	8	<input checked="" type="checkbox"/>	1000	1078.6	107.9

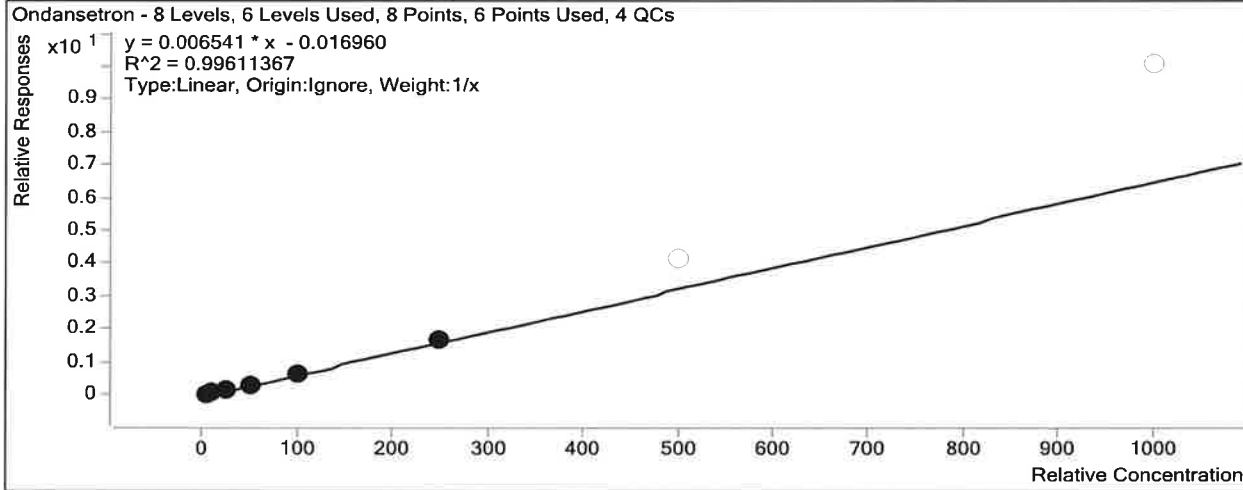
ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\052918 MDQ P1 P2 TS\QuantResults\052918 MDQ P2a
worklist 2428 TS.batch.bin

Last Calib Update 6/6/2018 11:39 AM **Analyst Name** ISP TOX

Target Compound Ondansetron
Internal Standard Carbamazepine-13C6



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng.d	1	<input checked="" type="checkbox"/>	5	6.0	120.3
P2 a cal 2-10ng.d	2	<input checked="" type="checkbox"/>	10	9.9	99.0
P2 a QC 10 (QC1).d	2	<input checked="" type="checkbox"/>	10	9.8	97.8
P2 a cal 3-25ng.d	3	<input checked="" type="checkbox"/>	25	21.9	87.6
P2 a cal 4-50ng.d	4	<input checked="" type="checkbox"/>	50	46.7	93.3
P2 a cal 5-100ng.d	5	<input checked="" type="checkbox"/>	100	96.0	96.0
P2 a QC 100 (QC2).d	5	<input checked="" type="checkbox"/>	100	100.2	100.2
P2 a cal 6-250ng.d	6	<input checked="" type="checkbox"/>	250	259.6	103.8
P2 a QC 250 (QC 3).d	6	<input checked="" type="checkbox"/>	250	283.8	113.5
P2 a cal 7-500ng.d	7	<input type="checkbox"/>	500	636.3	127.3
P2 a cal 8-1000ng.d	8	<input type="checkbox"/>	1000	1538.0	153.8
P2 a QC 1000 (QC 4).d	8	<input checked="" type="checkbox"/>	1000	1728.4	172.8

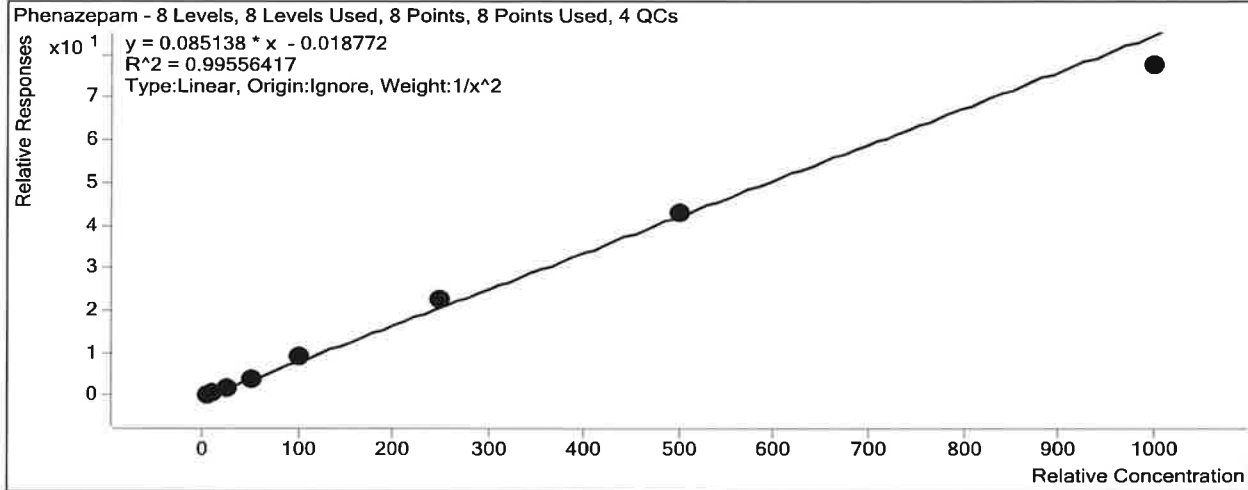
ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\052918 MDQ P1 P2 TS\QuantResults\052918 MDQ P2a
worklist 2428 TS.batch.bin

Last Calib Update 6/6/2018 11:39 AM **Analyst Name** ISP TOX

Target Compound Phenazepam
Internal Standard Phenazepam-D4



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng.d	1	<input checked="" type="checkbox"/>	5	5.1	102.3
P2 a cal 2-10ng.d	2	<input checked="" type="checkbox"/>	10	9.6	96.2
P2 a QC 10 (QC1).d	2	<input checked="" type="checkbox"/>	10	9.2	92.4
P2 a cal 3-25ng.d	3	<input checked="" type="checkbox"/>	25	24.0	96.2
P2 a cal 4-50ng.d	4	<input checked="" type="checkbox"/>	50	49.2	98.5
P2 a cal 5-100ng.d	5	<input checked="" type="checkbox"/>	100	107.8	107.8
P2 a QC 100 (QC2).d	5	<input checked="" type="checkbox"/>	100	105.3	105.3
P2 a cal 6-250ng.d	6	<input checked="" type="checkbox"/>	250	269.0	107.6
P2 a QC 250 (QC 3).d	6	<input checked="" type="checkbox"/>	250	268.9	107.6
P2 a cal 7-500ng.d	7	<input checked="" type="checkbox"/>	500	501.9	100.4
P2 a cal 8-1000ng.d	8	<input checked="" type="checkbox"/>	1000	910.3	91.0
P2 a QC 1000 (QC 4).d	8	<input checked="" type="checkbox"/>	1000	900.5	90.0

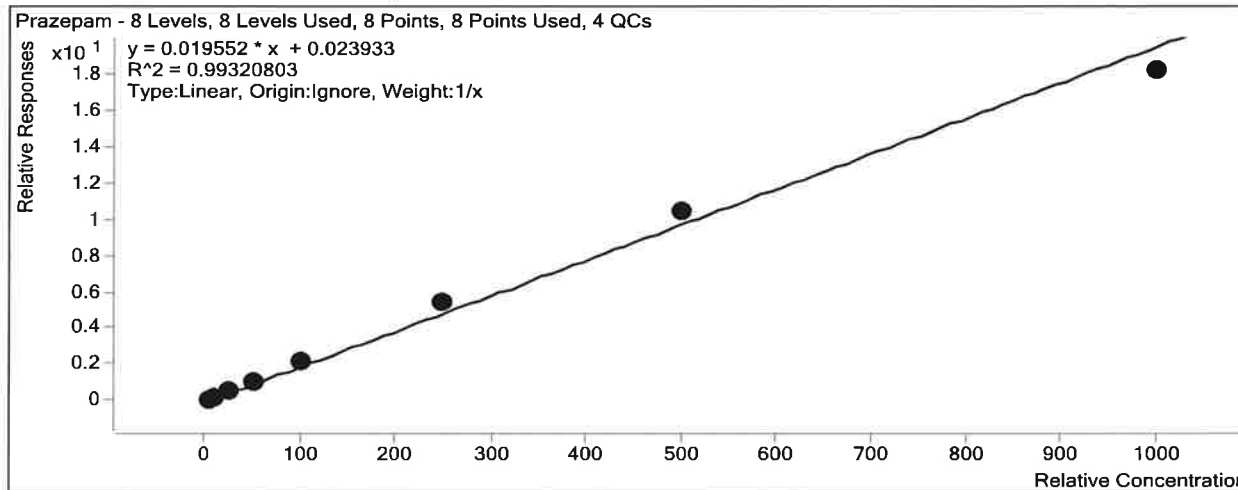
ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\052918 MDQ P1 P2 TS\QuantResults\052918 MDQ P2a
worklist 2428 TS.batch.bin

Last Calib Update 6/6/2018 11:39 AM **Analyst Name** ISP TOX

Target Compound *Prazepam*
Internal Standard *Prazepam-D5*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng.d	1	<input checked="" type="checkbox"/>	5	4.1	83.0
P2 a cal 2-10ng.d	2	<input checked="" type="checkbox"/>	10	8.9	89.5
P2 a QC 10 (QC1).d	2	<input checked="" type="checkbox"/>	10	9.4	94.0
P2 a cal 3-25ng.d	3	<input checked="" type="checkbox"/>	25	24.7	98.8
P2 a cal 4-50ng.d	4	<input checked="" type="checkbox"/>	50	53.5	107.0
P2 a cal 5-100ng.d	5	<input checked="" type="checkbox"/>	100	111.5	111.5
P2 a QC 100 (QC2).d	5	<input checked="" type="checkbox"/>	100	112.8	112.8
P2 a cal 6-250ng.d	6	<input checked="" type="checkbox"/>	250	278.1	111.2
P2 a QC 250 (QC 3).d	6	<input checked="" type="checkbox"/>	250	280.8	112.3
P2 a cal 7-500ng.d	7	<input checked="" type="checkbox"/>	500	531.2	106.2
P2 a cal 8-1000ng.d	8	<input checked="" type="checkbox"/>	1000	928.0	92.8
P2 a QC 1000 (QC 4).d	8	<input checked="" type="checkbox"/>	1000	922.7	92.3

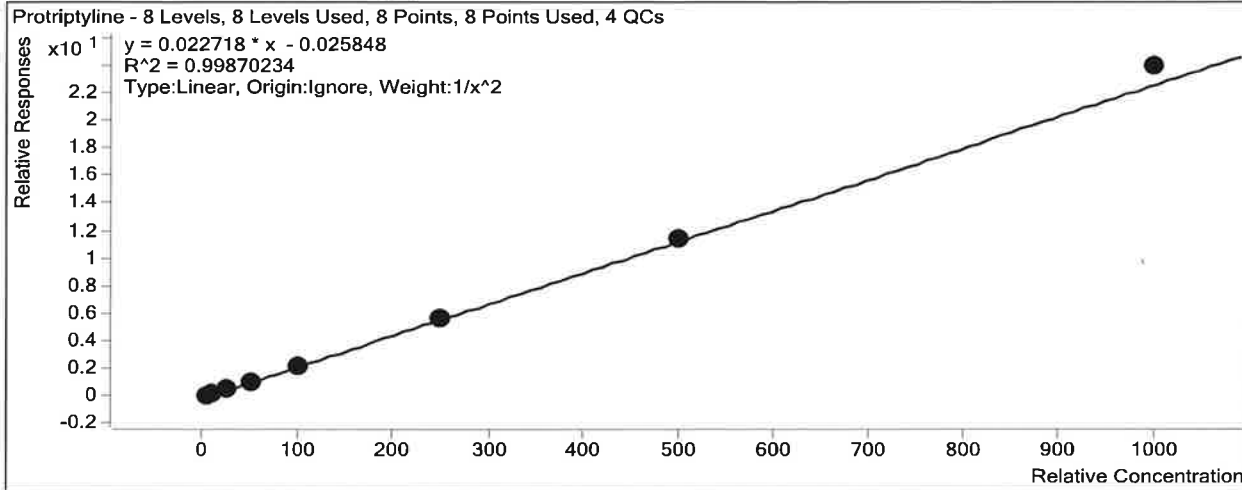
ISP Forensics Calibration Curve Report

13

Batch Data Path C:\MassHunter\Data\2018\MD Quant\052918 MDQ P1 P2 TS\QuantResults\052918 MDQ P2a
worklist 2428 TS.batch.bin

Last Calib Update 6/6/2018 11:39 AM **Analyst Name** ISP TOX

Target Compound *Protriptyline*
Internal Standard *Protriptyline-d3*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng.d	1	<input checked="" type="checkbox"/>	5	5.1	102.0
P2 a cal 2-10ng.d	2	<input checked="" type="checkbox"/>	10	9.8	98.4
P2 a QC 10 (QC1).d	2	<input checked="" type="checkbox"/>	10	10.2	102.5
P2 a cal 3-25ng.d	3	<input checked="" type="checkbox"/>	25	23.9	95.5
P2 a cal 4-50ng.d	4	<input checked="" type="checkbox"/>	50	48.4	96.9
P2 a cal 5-100ng.d	5	<input checked="" type="checkbox"/>	100	100.1	100.1
P2 a QC 100 (QC2).d	5	<input checked="" type="checkbox"/>	100	101.9	101.9
P2 a cal 6-250ng.d	6	<input checked="" type="checkbox"/>	250	253.0	101.2
P2 a QC 250 (QC 3).d	6	<input checked="" type="checkbox"/>	250	256.1	102.4
P2 a cal 7-500ng.d	7	<input checked="" type="checkbox"/>	500	502.4	100.5
P2 a cal 8-1000ng.d	8	<input checked="" type="checkbox"/>	1000	1054.9	105.5
P2 a QC 1000 (QC 4).d	8	<input checked="" type="checkbox"/>	1000	1046.4	104.6

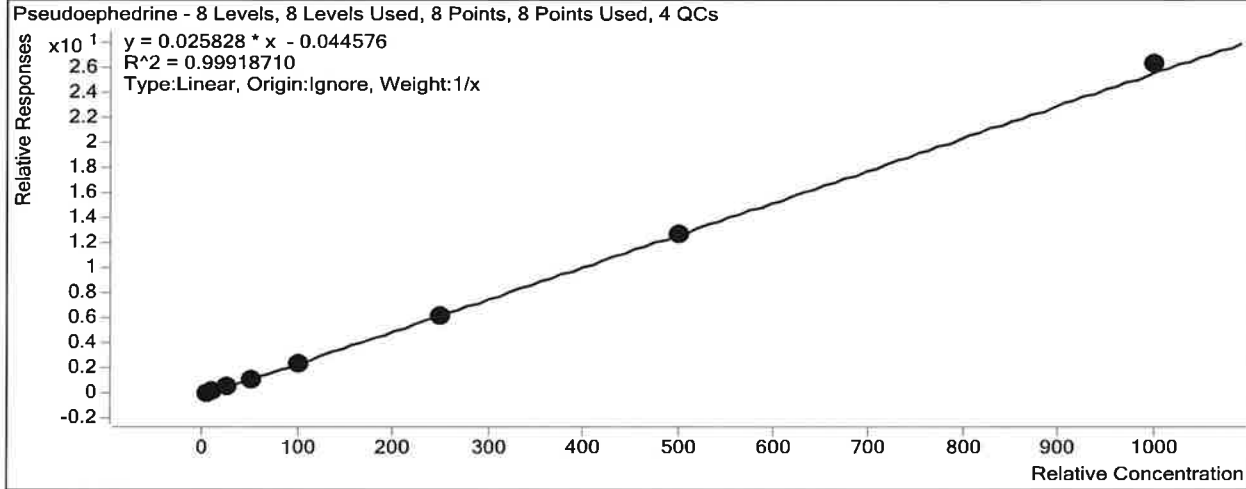
ISP Forensics Calibration Curve Report

B

Batch Data Path C:\MassHunter\Data\2018\MD Quant\052918 MDQ P1 P2 TS\QuantResults\052918 MDQ P2a
worklist 2428 TS.batch.bin

Last Calib Update 6/6/2018 11:39 AM **Analyst Name** ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng.d	1	<input checked="" type="checkbox"/>	5	5.8	116.7
P2 a cal 2-10ng.d	2	<input checked="" type="checkbox"/>	10	10.0	100.1
P2 a QC 10 (QC1).d	2	<input checked="" type="checkbox"/>	10	10.1	101.3
P2 a cal 3-25ng.d	3	<input checked="" type="checkbox"/>	25	23.4	93.8
P2 a cal 4-50ng.d	4	<input checked="" type="checkbox"/>	50	48.2	96.4
P2 a cal 5-100ng.d	5	<input checked="" type="checkbox"/>	100	95.9	95.9
P2 a QC 100 (QC2).d	5	<input checked="" type="checkbox"/>	100	96.1	96.1
P2 a cal 6-250ng.d	6	<input checked="" type="checkbox"/>	250	239.8	95.9
P2 a QC 250 (QC 3).d	6	<input checked="" type="checkbox"/>	250	244.4	97.8
P2 a cal 7-500ng.d	7	<input checked="" type="checkbox"/>	500	494.6	98.9
P2 a cal 8-1000ng.d	8	<input checked="" type="checkbox"/>	1000	1022.2	102.2
P2 a QC 1000 (QC 4).d	8	<input checked="" type="checkbox"/>	1000	1043.4	104.3

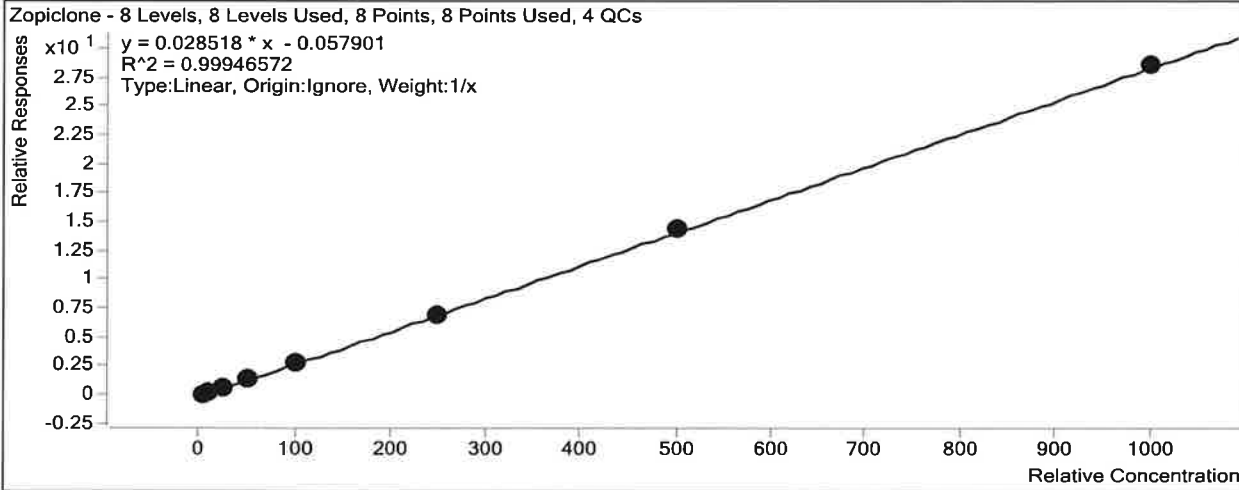
ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\052918 MDQ P1 P2 TS\QuantResults\052918 MDQ P2a
worklist 2428 TS.batch.bin

Last Calib Update 6/6/2018 11:39 AM **Analyst Name** ISP TOX

Target Compound Zopiclone
Internal Standard Zopiclone-D4



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng.d	1	<input checked="" type="checkbox"/>	5	5.9	117.7
P2 a cal 2-10ng.d	2	<input checked="" type="checkbox"/>	10	9.9	99.5
P2 a QC 10 (QC1).d	2	<input checked="" type="checkbox"/>	10	9.4	93.6
P2 a cal 3-25ng.d	3	<input checked="" type="checkbox"/>	25	22.0	88.0
P2 a cal 4-50ng.d	4	<input checked="" type="checkbox"/>	50	48.4	96.7
P2 a cal 5-100ng.d	5	<input checked="" type="checkbox"/>	100	98.7	98.7
P2 a QC 100 (QC2).d	5	<input checked="" type="checkbox"/>	100	93.3	93.3
P2 a cal 6-250ng.d	6	<input checked="" type="checkbox"/>	250	243.2	97.3
P2 a QC 250 (QC 3).d	6	<input checked="" type="checkbox"/>	250	235.5	94.2
P2 a cal 7-500ng.d	7	<input checked="" type="checkbox"/>	500	509.1	101.8
P2 a cal 8-1000ng.d	8	<input checked="" type="checkbox"/>	1000	1002.8	100.3
P2 a QC 1000 (QC 4).d	8	<input checked="" type="checkbox"/>	1000	999.8	100.0

TS

ISP FORENSICS - Pocatello Instrument # 59740

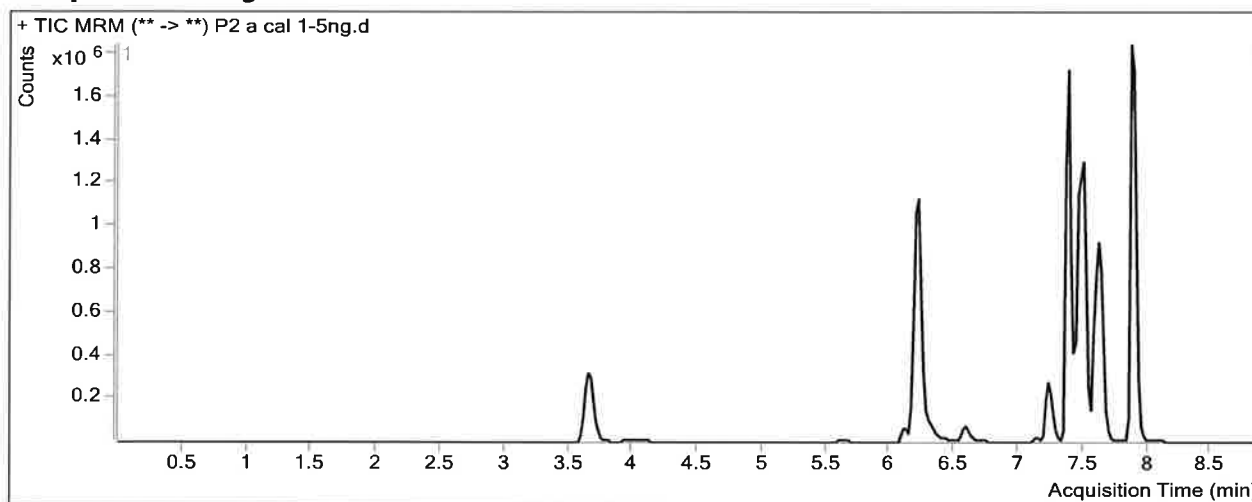
Multi-Drug Confirmatory Analysis Report

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\052918 MDQ P1 P2 TS\QuantResults\052918 MDQ P2a worklist 2428 TS		
Analysis Time	6/6/2018 11:39 AM	Analyst Name	ISPUser
Report Time	6/6/2018 11:42 AM	Reporter Name	ISPUser
Last Calib Update	6/6/2018 11:39 AM	Batch State	Processed

Analysis Info

Acq Time	2018-05-29 14:00	Data File	P2 a cal 1-5ng.d
Sample Type	Calibration	Sample Name	P2 a cal 1-5ng.d
Dilution	1	Acq Method	MDQ Panel 2a 5-29-18.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	3.676	163351	1538254	0.1062	5.8374
Levamisole	Benzoylecgonine-d8	3.985	69381	31208	2.2232	5.3375
Benzoylecgonine	Benzoylecgonine-d8	5.677	3050	31208	0.0977	5.2778
Zopiclone	Zopiclone-D4	6.109	23356	212524	0.1099	5.8841
Cocaine	Cocaine-D3	6.192	187903	1566169	0.1200	5.5582
Methylphenidate	Methylphenidate-D4	6.228	403178	2782773	0.1449	4.9070
Metoprolol	Methylphenidate-D4	6.244	45203	2782773	0.0162	5.0042
Ondansetron	Carbamazepine-13C6	6.314	103992	4649140	0.0224	6.0127
Mirtazapine	Carbamazepine-13C6	6.587	172323	4649140	0.0371	5.8662
Mitragynine	Doxepin-D3	7.113	59187	984993	0.0601	6.2347
Doxepin	Doxepin-D3	7.225	83162	984993	0.0844	5.7562
Carbamazepine	Carbamazepine-13C6	7.394	378720	4649140	0.0815	5.1377
Protriptyline	Protriptyline-d3	7.452	75432	838458	0.0900	5.0979
Estazolam	Estazolam-D5	7.484	161646	1774089	0.0911	5.9872
Amitriptyline	Amitriptyline-D3	7.487	175314	863547	0.2030	5.0519
Maprotiline	Nortriptyline-d3	7.487	173561	712894	0.2435	5.7676
Nortriptyline	Nortriptyline-d3	7.492	60353	712894	0.0847	5.7929
alpha-hydroxymidazolam	alpha-hydroxymidazolam-D4	7.559	105345	1287569	0.0818	5.1391
Midazolam	Midazolam-D4	7.620	36275	1247600	0.0291	5.6566

TS

ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report P2 a cal 1-5ng

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Chlordiazepoxide	Chlordiazepoxide-D5	7.623	58968	1373040	0.0429	5.7302
Phenazepam	Phenazepam-D4	7.657	23007	55214	0.4167	5.1146
Prazepam	Prazepam-D5	7.883	556208	5295532	0.1050	4.1479

TS

ISP FORENSICS - Pocatello Instrument # 59740

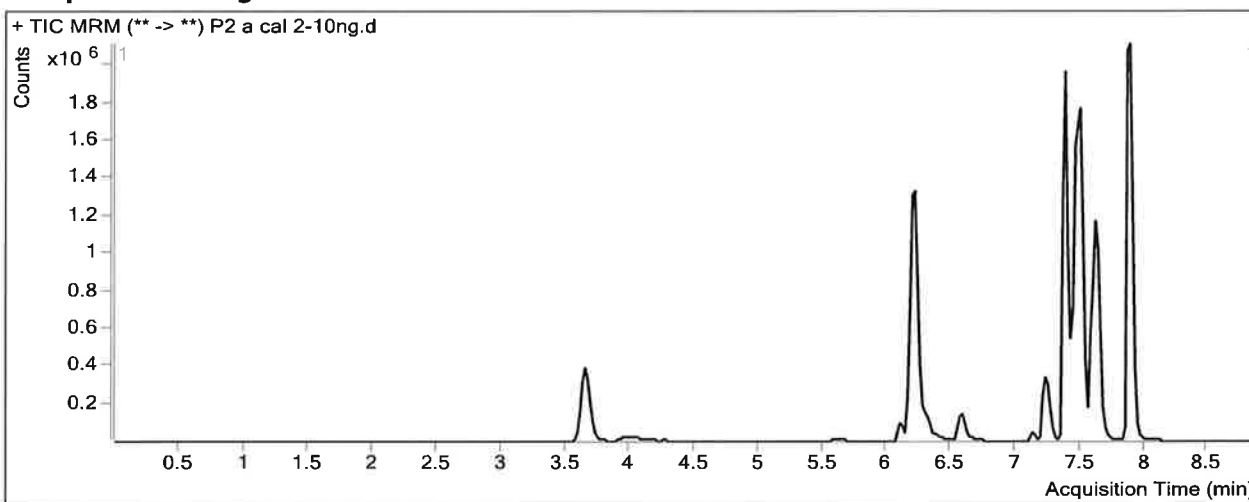
Multi-Drug Confirmatory Analysis Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\052918 MDQ P1 P2 TS\QuantResults\052918 MDQ P2a worklist 2428 TS
Analysis Time 6/6/2018 11:39 AM **Analyst Name** ISPUser
Report Time 6/6/2018 11:42 AM **Reporter Name** ISPUser
Last Calib Update 6/6/2018 11:39 AM **Batch State** Processed

Analysis Info

Acq Time 2018-05-29 14:15 **Data File** P2 a cal 2-10ng.d
Sample Type Calibration **Sample Name** P2 a cal 2-10ng.d
Dilution 1 **Acq Method** MDQ Panel 2a 5-29-18.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	3.676	343497	1605057	0.2140	10.0119
Levamisole	Benzoylecgonine-d8	3.985	147106	33119	4.4417	9.1839
Benzoylecgonine	Benzoylecgonine-d8	5.677	6716	33119	0.2028	9.6231
Zopiclone	Zopiclone-D4	6.109	59481	263388	0.2258	9.9493
Cocaine	Cocaine-D3	6.192	400042	1655657	0.2416	9.9017
Methylphenidate	Methylphenidate-D4	6.228	825498	2939851	0.2808	9.4218
Metoprolol	Methylphenidate-D4	6.244	91421	2939851	0.0311	9.5817
Ondansetron	Carbamazepine-13C6	6.314	227357	4755155	0.0478	9.9029
Mirtazapine	Carbamazepine-13C6	6.587	367064	4755155	0.0772	9.8285
Mitragynine	Doxepin-D3	7.113	131927	1155314	0.1142	9.6701
Doxepin	Doxepin-D3	7.225	197877	1155314	0.1713	9.8084
Carbamazepine	Carbamazepine-13C6	7.394	752323	4755155	0.1582	9.6328
Protriptyline	Protriptyline-d3	7.452	232913	1178213	0.1977	9.8394
Estazolam	Estazolam-D5	7.484	322823	1736237	0.1859	10.2023
Amitriptyline	Amitriptyline-D3	7.487	465256	1125176	0.4135	9.8216
Maprotiline	Nortriptyline-d3	7.487	473469	980025	0.4831	10.0076
Nortriptyline	Nortriptyline-d3	7.492	175124	980025	0.1787	10.1595
alpha-hydroxymidazolam	alpha-hydroxymidazolam-D4	7.579	219942	1401069	0.1570	9.4484
Midazolam	Midazolam-D4	7.601	92623	1444437	0.0641	10.4073

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

TS

P2 a cal 2-10ng

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Chlordiazepoxide	Chlordiazepoxide-D5	7.623	127817	1592220	0.0803	9.4953
Phenazepam	Phenazepam-D4	7.657	48789	60938	0.8006	9.6244
Prazepam	Prazepam-D5	7.883	1153506	5800512	0.1989	8.9467

ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report

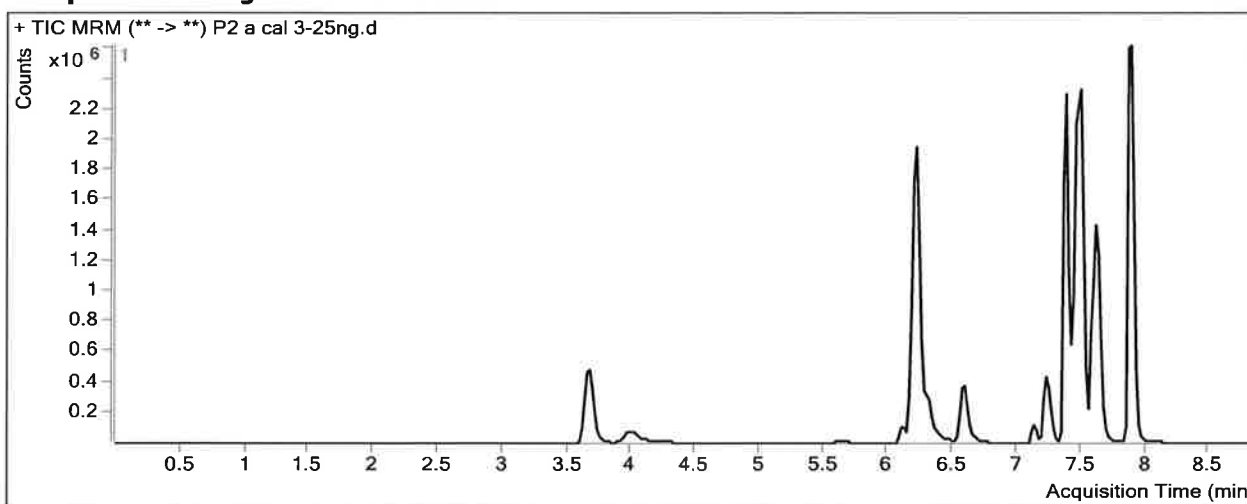
TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\052918 MDQ P1 P2 TS\QuantResults\052918 MDQ P2a worklist 2428 TS
Analysis Time 6/6/2018 11:39 AM **Analyst Name** ISPUser
Report Time 6/6/2018 11:46 AM **Reporter Name** ISPUser
Last Calib Update 6/6/2018 11:39 AM **Batch State** Processed

Analysis Info

Acq Time 2018-05-29 14:31 **Data File** P2 a cal 3-25ng.d
Sample Type Calibration **Sample Name** P2 a cal 3-25ng.d
Dilution 1 **Acq Method** MDQ Panel 2a 5-29-18.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	3.676	874695	1559437	0.5609	23.4430
Levamisole	Benzoylecgonine-d8	3.985	386910	34510	11.2114	20.9210
Benzoylecgonine	Benzoylecgonine-d8	5.677	16375	34510	0.4745	20.8635
Zopiclone	Zopiclone-D4	6.109	139102	244166	0.5697	22.0076
Cocaine	Cocaine-D3	6.192	1031909	1643531	0.6279	23.6931
Methylphenidate	Methylphenidate-D4	6.228	2108360	2956459	0.7131	23.7836
Metoprolol	Methylphenidate-D4	6.244	249984	2956459	0.0846	26.0567
Ondansetron	Carbamazepine-13C6	6.314	591016	4680284	0.1263	21.8992
Mirtazapine	Carbamazepine-13C6	6.587	937013	4680284	0.2002	21.9750
Mitragynine	Doxepin-D3	7.113	323065	1054550	0.3064	21.8719
Doxepin	Doxepin-D3	7.225	494207	1054550	0.4686	23.6834
Carbamazepine	Carbamazepine-13C6	7.394	1870570	4680284	0.3997	23.7742
Protriptyline	Protriptyline-d3	7.452	508150	984009	0.5164	23.8690
Estazolam	Estazolam-D5	7.484	803446	1675510	0.4795	23.2538
Amitriptyline	Amitriptyline-D3	7.487	1025970	973329	1.0541	24.3381
Maprotiline	Nortriptyline-d3	7.487	1038746	847756	1.2253	23.1382
Nortriptyline	Nortriptyline-d3	7.492	387854	847756	0.4575	23.1067
alpha-hydroxymidazolam	alpha-hydroxymidazolam-D4	7.579	586893	1412616	0.4155	24.2676
Midazolam	Midazolam-D4	7.620	228849	1458627	0.1569	22.9821

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

TS

P2 a cal 3-25ng

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Chlordiazepoxide	Chlordiazepoxide-D5	7.623	358520	1607099	0.2231	23.9000
Phenazepam	Phenazepam-D4	7.657	119435	58883	2.0283	24.0445
Prazepam	Prazepam-D5	7.883	2770282	5463458	0.5071	24.7092

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ISP FORENSICS - Pocatello Instrument # 59740

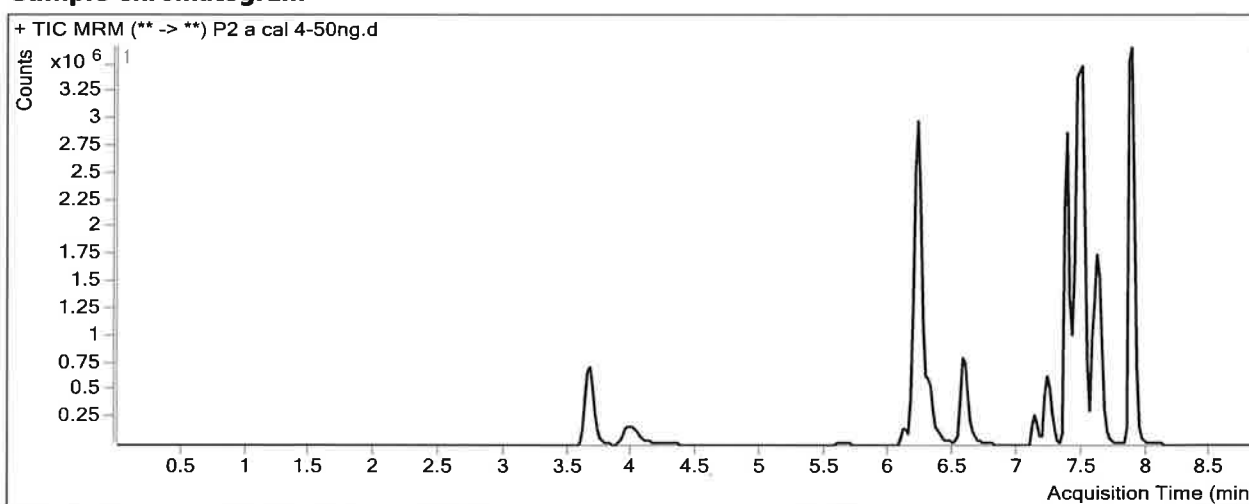
Multi-Drug Confirmatory Analysis Report

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\052918 MDQ P1 P2 TS\QuantResults\052918 MDQ P2a worklist 2428 TS		
Analysis Time	6/6/2018 11:39 AM	Analyst Name	ISPUser
Report Time	6/6/2018 11:42 AM	Reporter Name	ISPUser
Last Calib Update	6/6/2018 11:39 AM	Batch State	Processed

Analysis Info

Acq Time	2018-05-29 14:47	Data File	P2 a cal 4-50ng.d
Sample Type	Calibration	Sample Name	P2 a cal 4-50ng.d
Dilution	1	Acq Method	MDQ Panel 2a 5-29-18.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	3.676	1878719	1565110	1.2004	48.2020
Levamisole	Benzoylecgonine-d8	3.965	849057	29614	28.6711	51.1919
Benzoylecgonine	Benzoylecgonine-d8	5.677	32941	29614	1.1124	47.2502
Zopiclone	Zopiclone-D4	6.109	293222	221881	1.3215	48.3712
Cocaine	Cocaine-D3	6.192	2141330	1608382	1.3314	48.8127
Methylphenidate	Methylphenidate-D4	6.228	4429322	2881988	1.5369	51.1477
Metoprolol	Methylphenidate-D4	6.244	504775	2881988	0.1751	53.9760
Ondansetron	Carbamazepine-13C6	6.314	1235289	4285003	0.2883	46.6675
Mirtazapine	Carbamazepine-13C6	6.567	2002718	4285003	0.4674	48.3565
Mitragynine	Doxepin-D3	7.113	705921	1061410	0.6651	44.6502
Doxepin	Doxepin-D3	7.225	1054942	1061410	0.9939	48.1919
Carbamazepine	Carbamazepine-13C6	7.394	3623886	4285003	0.8457	49.8976
Protriptyline	Protriptyline-d3	7.452	1150194	1070388	1.0746	48.4377
Estazolam	Estazolam-D5	7.484	1443064	1410454	1.0231	47.4193
Amitriptyline	Amitriptyline-D3	7.467	2287272	1018334	2.2461	51.3503
Maprotiline	Nortriptyline-d3	7.487	2299273	890176	2.5829	47.1579
Nortriptyline	Nortriptyline-d3	7.492	899940	890176	1.0110	48.8075
alpha-hydroxymidazolam	alpha-hydroxymidazolam-D4	7.579	1175896	1314041	0.8949	51.7525
Midazolam	Midazolam-D4	7.601	485188	1403856	0.3456	48.5625

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

TS

P2 a cal 4-50ng

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Chlordiazepoxide	Chlordiazepoxide-D5	7.623	711864	1470949	0.4839	50.2125
Phenazepam	Phenazepam-D4	7.657	219126	52494	4.1743	49.2499
Prazepam	Prazepam-D5	7.883	5617222	5248730	1.0702	53.5113

TS

ISP FORENSICS - Pocatello Instrument # 59740

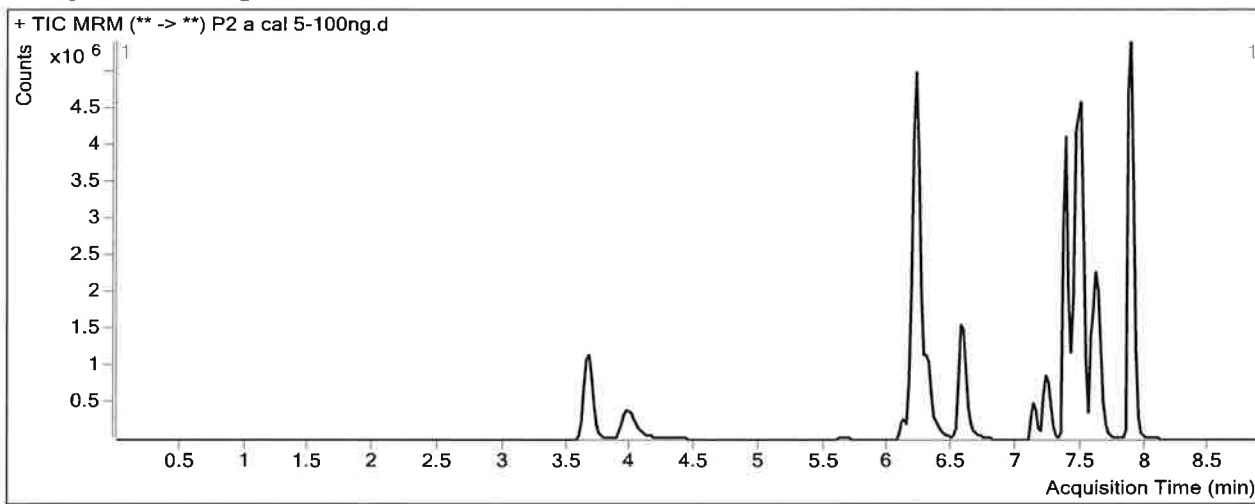
Multi-Drug Confirmatory Analysis Report

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Analysis Time 6/6/2018 11:39 AM **Analyst Name** ISPUser
Report Time 6/6/2018 11:42 AM **Reporter Name** ISPUser
Last Calib Update 6/6/2018 11:39 AM **Batch State** Processed

Analysis Info

Acq Time 2018-05-29 15:02 **Data File** P2 a cal 5-100ng.d
Sample Type Calibration **Sample Name** P2 a cal 5-100ng.d
Dilution 1 **Acq Method** MDQ Panel 2a 5-29-18.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	3.676	3867486	1589933	2.4325	95.9067
Levamisole	Benzoylecgonine-d8	3.965	1800868	30121	59.7871	105.1396
Benzoylecgonine	Benzoylecgonine-d8	5.677	71435	30121	2.3716	99.3415
Zopiclone	Zopiclone-D4	6.109	607321	220361	2.7560	98.6733
Cocaine	Cocaine-D3	6.192	4303053	1617980	2.6595	96.2372
Methylphenidate	Methylphenidate-D4	6.228	8868490	2825365	3.1389	104.3632
Metoprolol	Methylphenidate-D4	6.244	1000719	2825365	0.3542	109.1540
Ondansetron	Carbamazepine-13C6	6.314	2477754	4057201	0.6107	95.9618
Mirtazapine	Carbamazepine-13C6	6.567	3894087	4057201	0.9598	96.9792
Mitragynine	Doxepin-D3	7.113	1364004	906344	1.5050	97.9804
Doxepin	Doxepin-D3	7.225	1875309	906344	2.0691	98.3596
Carbamazepine	Carbamazepine-13C6	7.394	6887858	4057201	1.6977	99.7949
Protriptyline	Protriptyline-d3	7.452	1625505	722932	2.2485	100.1120
Estazolam	Estazolam-D5	7.484	2664878	1282999	2.0771	94.2726
Amitriptyline	Amitriptyline-D3	7.487	3215233	711933	4.5162	102.7936
Maprotiline	Nortriptyline-d3	7.487	3184045	593236	5.3672	96.4181
Nortriptyline	Nortriptyline-d3	7.492	1203688	593236	2.0290	96.0823
alpha-hydroxymidazolam	alpha-hydroxymidazolam-D4	7.579	2224372	1229569	1.8091	104.1645
Midazolam	Midazolam-D4	7.620	919186	1309939	0.7017	96.8300

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Multi-Drug Confirmatory Analysis Report

TS

P2 a cal 5-100ng

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Chlordiazepoxide	Chlordiazepoxide-D5	7.623	1288940	1339521	0.9622	98.4560
Phenazepam	Phenazepam-D4	7.657	370937	40507	9.1574	107.7788
Prazepam	Prazepam-D5	7.883	10523183	4776630	2.2031	111.4505

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Multi-Drug Confirmatory Analysis Report

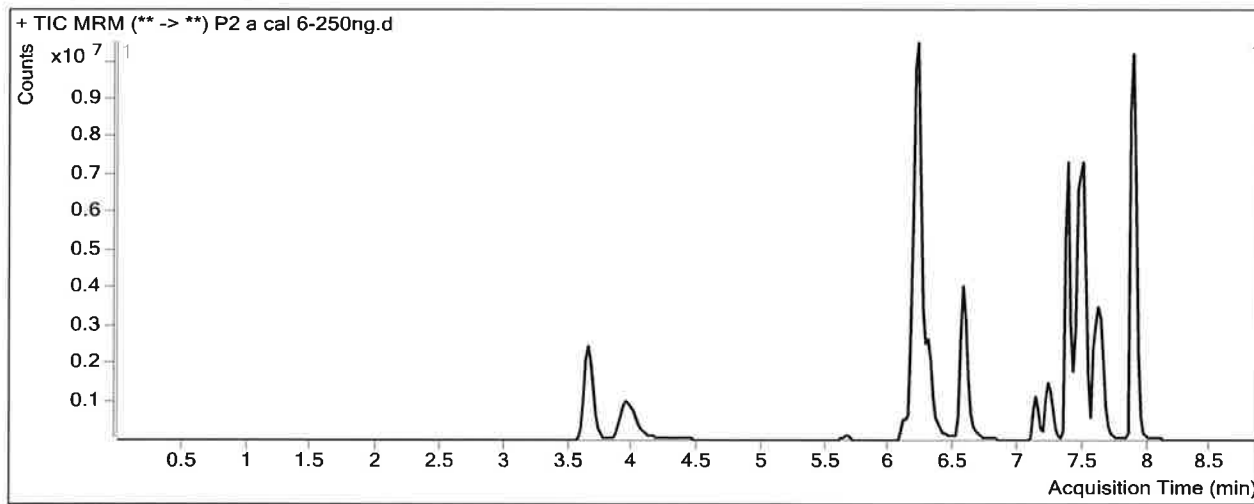
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Batch Data Path C:\MassHunter\Data\2018\MD Quant\052918 MDQ P1 P2 TS\QuantResults\052918 MDQ P2a worklist 2428 TS
Analysis Time 6/6/2018 11:39 AM **Analyst Name** ISPUser
Report Time 6/6/2018 11:42 AM **Reporter Name** ISPUser
Last Calib Update 6/6/2018 11:39 AM **Batch State** Processed

Analysis Info

Acq Time 2018-05-29 15:18 **Data File** P2 a cal 6-250ng.d
Sample Type Calibration **Sample Name** P2 a cal 6-250ng.d
Dilution 1 **Acq Method** MDQ Panel 2a 5-29-18.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	3.656	9776335	1590249	6.1477	239.7514
Levamisole	Benzoylecgonine-d8	3.945	4650016	32430	143.3860	250.0801
Benzoylecgonine	Benzoylecgonine-d8	5.677	197377	32430	6.0862	253.0112
Zopiclone	Zopiclone-D4	6.089	1419185	206368	6.8770	243.1783
Cocaine	Cocaine-D3	6.172	11014651	1622357	6.7893	243.6980
Methylphenidate	Methylphenidate-D4	6.228	21278539	2677049	7.9485	264.1316
Metoprolol	Methylphenidate-D4	6.244	2212610	2677049	0.8265	254.7153
Ondansetron	Carbamazepine-13C6	6.294	5841124	3475331	1.6807	259.5559
Mirtazapine	Carbamazepine-13C6	6.567	8967487	3475331	2.5803	256.9946
Mitragynine	Doxepin-D3	7.113	3044504	751709	4.0501	259.5927
Doxepin	Doxepin-D3	7.225	3712622	751709	4.9389	232.2642
Carbamazepine	Carbamazepine-13C6	7.394	15232498	3475331	4.3830	257.0672
Protriptyline	Protriptyline-d3	7.452	2728537	476789	5.7227	253.0414
Estazolam	Estazolam-D5	7.484	5490385	1033501	5.3124	238.0994
Amitriptyline	Amitriptyline-D3	7.487	5398832	495317	10.8998	247.4523
Maprotiline	Nortriptyline-d3	7.487	5469804	391064	13.9870	248.9191
Nortriptyline	Nortriptyline-d3	7.492	1992397	391064	5.0948	238.4468
alpha-hydroxymidazolam	alpha-hydroxymidazolam-D4	7.579	4614522	1053416	4.3805	251.5900
Midazolam	Midazolam-D4	7.620	2128325	1221301	1.7427	237.9318

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

TS

P2 a cal 6-250ng

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Chlordiazepoxide	Chlordiazepoxide-D5	7.623	2554719	1098870	2.3249	235.8989
Phenazepam	Phenazepam-D4	7.657	655634	28653	22.8821	268.9834
Prazepam	Prazepam-D5	7.883	23613711	4324126	5.4609	278.0730

TS

ISP FORENSICS - Pocatello Instrument # 59740

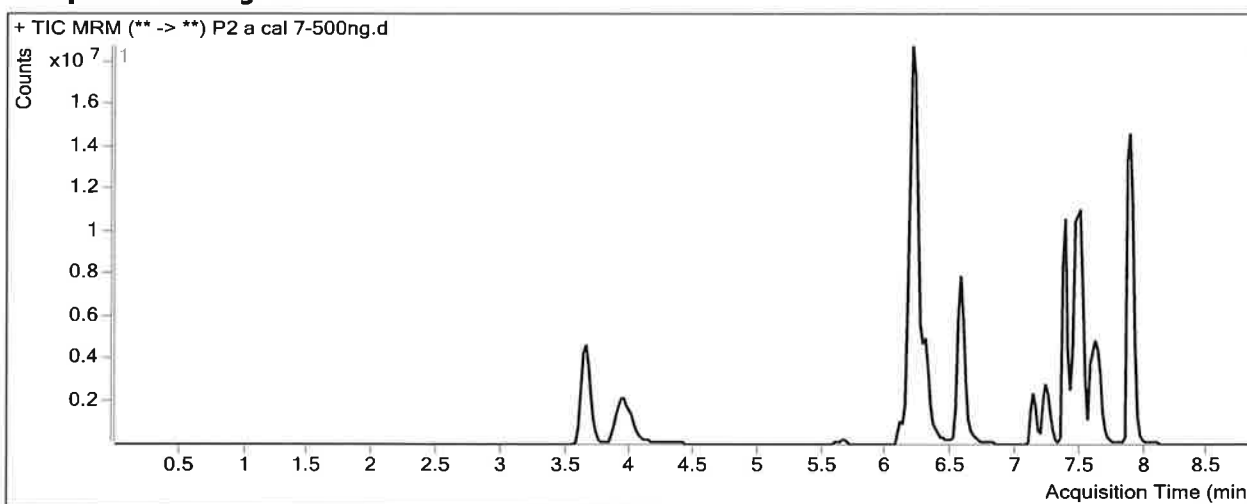
Multi-Drug Confirmatory Analysis Report

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Analysis Time	6/6/2018 11:39 AM	Analyst Name	ISPUser
Report Time	6/6/2018 11:43 AM	Reporter Name	ISPUser
Last Calib Update	6/6/2018 11:39 AM	Batch State	Processed

Analysis Info

Acq Time	2018-05-29 15:34	Data File	P2 a cal 7-500ng.d
Sample Type	Calibration	Sample Name	P2 a cal 7-500ng.d
Dilution	1	Acq Method	MDQ Panel 2a 5-29-18.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	3.656	19727658	1549589	12.7309	494.6404
Levamisole	Benzoyllecgonine-d8	3.925	10127418	32250	314.0320	545.9394
Benzoyllecgonine	Benzoyllecgonine-d8	5.677	465665	32250	14.4394	598.5655
Zopiclone	Zopiclone-D4	6.089	2699050	186638	14.4614	509.1351
Cocaine	Cocaine-D3	6.172	23017601	1569448	14.6660	524.9516
Methylphenidate	Methylphenidate-D4	6.228	39022493	2494680	15.6423	519.7075
Metoprolol	Methylphenidate-D4	6.244	3778562	2494680	1.5146	466.7881
Ondansetron	Carbamazepine-13C6	6.294	11335522	2734607	4.1452	636.3410
Mirtazapine	Carbamazepine-13C6	6.567	18285795	2734607	6.6868	662.4796
Mitragynine	Doxepin-D3	7.113	6463861	685287	9.4323	601.3531
Doxepin	Doxepin-D3	7.225	7642329	685287	11.1520	522.1650
Carbamazepine	Carbamazepine-13C6	7.394	24271326	2734607	8.8756	520.1833
Protriptyline	Protriptyline-d3	7.452	4726236	415048	11.3872	502.3802
Estazolam	Estazolam-D5	7.484	7735521	707619	10.9318	487.9069
Amitriptyline	Amitriptyline-D3	7.467	9884643	449352	21.9975	498.9408
Maprotiline	Nortriptyline-d3	7.487	9748240	340083	28.6643	508.5915
Nortriptyline	Nortriptyline-d3	7.492	3595678	340083	10.5729	492.8321
alpha-hydroxymidazolam	alpha-hydroxymidazolam-D4	7.579	7348982	836435	8.7861	504.1657
Midazolam	Midazolam-D4	7.620	3894749	1059979	3.6744	499.7702

TS

ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report *P2 a cal 7-500ng*

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Chlordiazepoxide	Chlordiazepoxide-D5	7.623	3862941	781907	4.9404	499.7205
Phenazepam	Phenazepam-D4	7.657	933676	21860	42.7125	501.9034
Prazepam	Prazepam-D5	7.883	38831610	3730178	10.4101	531.1983

TS

ISP FORENSICS - Pocatello Instrument # 59740

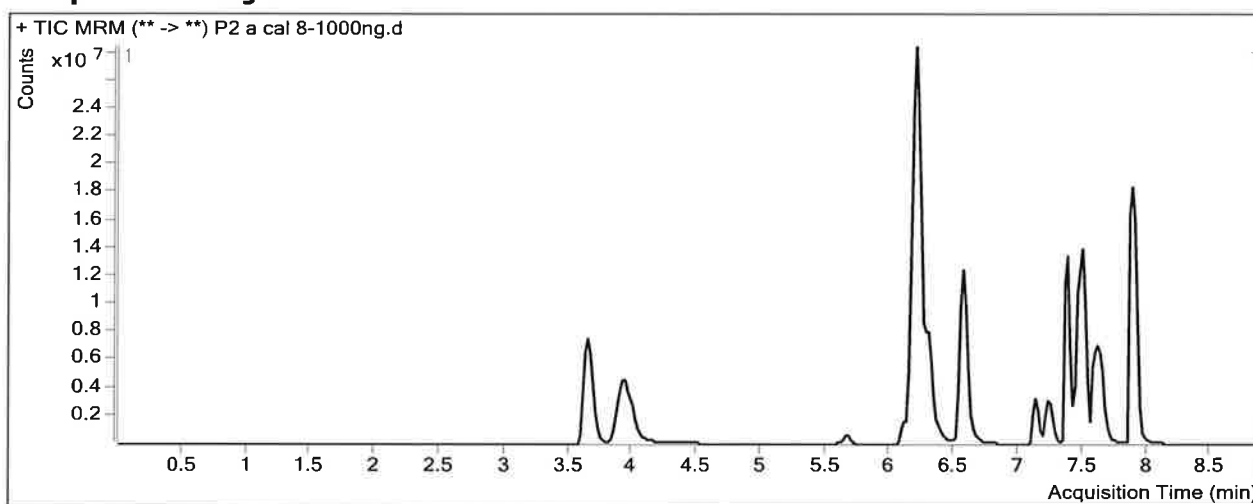
Multi-Drug Confirmatory Analysis Report

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Report Time 6/6/2018 11:43 AM **Reporter Name** ISPUser
Last Calib Update 6/6/2018 11:39 AM **Batch State** Processed

Analysis Info

Acq Time 2018-05-29 15:49 **Data File** P2 a cal 8-1000ng.d
Sample Type Calibration **Sample Name** P2 a cal 8-1000ng.d
Dilution 1 **Acq Method** MDQ Panel 2a 5-29-18.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	3.656	33648962	1276672	26.3568	1022.2072
Levamisole	Benzoyllecgonine-d8	3.925	19811978	34065	581.5943	1009.8284
Benzoyllecgonine	Benzoyllecgonine-d8	5.677	1252439	34065	36.7662	1522.1859
Zopiclone	Zopiclone-D4	6.089	4581728	160540	28.5396	1002.8010
Cocaine	Cocaine-D3	6.172	40755233	1476091	27.6102	987.1476
Methylphenidate	Methylphenidate-D4	6.228	57574153	1987158	28.9731	962.5376
Metoprolol	Methylphenidate-D4	6.244	5643397	1987158	2.8399	875.2196
Ondansetron	Carbamazepine-13C6	6.294	20614715	2052676	10.0428	1538.0124
Mirtazapine	Carbamazepine-13C6	6.567	30122829	2052676	14.6749	1451.2460
Mitragynine	Doxepin-D3	7.113	9269851	409582	22.6325	1439.5340
Doxepin	Doxepin-D3	7.225	8760132	409582	21.3880	999.7713
Carbamazepine	Carbamazepine-13C6	7.394	34814068	2052676	16.9603	993.6792
Protriptyline	Protriptyline-d3	7.472	4546712	189924	23.9397	1054.9157
Estazolam	Estazolam-D5	7.484	14616730	630295	23.1903	1032.8585
Amitriptyline	Amitriptyline-D3	7.487	9536177	218097	43.7244	991.2954
Maprotiline	Nortriptyline-d3	7.487	9566777	158954	60.1858	1066.2741
Nortriptyline	Nortriptyline-d3	7.492	3501460	158954	22.0281	1024.7721
alpha-hydroxymidazolam	alpha-hydroxymidazolam-D4	7.579	11758624	698726	16.8287	965.2582
Midazolam	Midazolam-D4	7.620	6876434	917282	7.4965	1017.8595

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

TS

P2 a cal 8-1000ng

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Chlordiazepoxide	Chlordiazepoxide-D5	7.643	5795757	575852	10.0647	1016.5866
Phenazepam	Phenazepam-D4	7.657	1375290	17749	77.4854	910.3302
Prazepam	Prazepam-D5	7.883	53665968	2953903	18.1678	927.9631