TS
9/4/2018

Worklist: 2673

LAB CASE	ITEM	TASK ID	DESCRIPTION	
M2018-3648	1	126177	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
M2018-3650	1	126178	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
M2018-3794	1	126179	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
M2018-4043	2	126180	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2018-2033	1	126181	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2018-2115	1	126182	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2018-2287	2	126183	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2018-2328	1	126184	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2018-2330	1	126185	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2018-2332	1	126186	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2018-2333	1	126187	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2018-2337	1	126188	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2018-2338	1	126189	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2018-2339	1	126190	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2018-2385	1	126191	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2018-2386	1	126192	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	

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

Extraction Date: <u>09/05/18</u>   Analyst: <u>Sarah Pickle</u>

Plate lot#: 0530563   Plate Expiration: 05/21/19

Mobile phase A: 5mM Amm Form + 0.01% FA   **Mobile phase B:** 0.01% Formic Acid in MeOH
    0.5M Ammonium Hydroxide   Ethyl Acetate   20% Methanol in Water

Blank Blood Lot: 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: _<u>090518 MDQ P1 P2 SP</u>_   Batch Name: *MDQ P1a, MDQ P1b*

☒ 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% (tramadol RT +/-2%), S/N for primary transition >10 and secondary transitions >5.

☒ 5. Did all QCs pass for each analyte? Y / N _____ Add Control data to QC tracking spreadsheet.

☒ 6. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports.

COMMENTS: *Curve Range Limited: Amphetamine 10-1000, Diphenhydramine 5-500, Doxylamine 5-500, Lorazepam 10-1000, Norhydrocodone 10-1000 and calibrator 3 dropped for poor secondary peak shape, Promethazine 5-500, Tramadol 5-250, Venlafaxine 5-500, Zolpidem 5-500, Fentanyl 1-100, Methadone 5-500, Ketamine 5-500, Norfentanyl 1-100, O-desmethyl-tramadol 5-250, Quetiapine 5-250*
Did Not Evaluate: Codeine, Benzoylecgonine, Buprenorphine, Dihydrocodeine, Norbuprenorphine

Case sample P2018-2113-1 from worklist 2680 ran with worklist 2673. Sarah Pickle acted as the primary analyst. I witnessed and approved of all actions and methods performed.

TS

Idaho State Police
Forensic Services

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

Analyst: Sarah Pickle
Extraction Date: 09/05/18
Worklist Number: 2673

Reagent	Lot Number	Expiration Date	Date in Service	Date Out of Service	Initials
ToxBox Benzo/Opiate Quant Plate	0530563	05/21/19			
Negative Blood	361331-1		05/25/18		
Methanol External Control Solution	121217	12/12/18	12/12/17		
Blood External Control Solution	WS121217	12/12/18	12/12/17		
0.5M Ammonium Hydroxide	082818	02/29/19	08/28/18		
Formic Acid (LCMS Grade)	095180B		11/15/17		
Water (LCMS Grade)	181370		6/21/18		
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	082818		08/28/18		
5mM Ammonium Formate + 0.01% Formic Acid in Water (Mobile Phase A)	090518		09/05/18		
0.01% Formic Acid in Methanol (Mobile Phase B)	082818		08/28/18		
Needle Rinse--75% LCMS MeOH in LCMS Water	090418		09/04/18		

Methanol External Control Solution (Lot: 121217)
100 ul each 1 mg/mL stock solution in 9600 ul MeOH

Component	Source	Source Lot Number	Expiration Date
Methanol (LCMS)	Fisher	172516	
Trazodone	Cerilliant	FN12151403	01/01/2020
Ketamine	Cerilliant	FE01131504	02/01/2020
Morphine	Cerilliant	FE08141515	11/01/2020
Quetiapine	Cerilliant	FN02021502	02/01/2020
Prepared:	12/12/17		
Prepared By:	Tamara Salazar		
Expires:	12/12/18		

Blood External Control Solution (Lot: WS121217)

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

Component	Source	Source Lot Number
Negative Blood	Hemostat	361331-3
Methanol External Control Solution		121217
Prepared:	12/12/17	
Prepared by:	Tamara Salazar	
Expires:	12/12/18	

0.5M Ammonium Hydroxide (Lot: 082818)

Component	Source	Source Lot Number
Ammonium Hydroxide (ACS grade or better)	Fisher	053200
DI Water	-	-
Prepared:	08/28/18	
Prepared By:	Tamara Salazar	
Expires:	02/29/19	

20% LCMS Methanol in LCMS Water (Lot: *082818*)

Component	Source	Source Lot Number
MeOH (LCMS Grade)	Fisher	177145
Water (LCMS Grade)	Fisher	181370
Prepared:	08/28/18	
Prepared By:	Tamara Salazar	

5mM Ammonium Formate + 0.01% Formic Acid in Water (Lot: 090518)

Component	Source	Source Lot Number
Ammonium Formate	Arcos Organics	A0287238
LCMS Water	Fisher	181370
Formic Acid	Fisher	095180B
Prepared:	09/05/18	
Prepared By:	Sarah Pickle	

**0.01% Formic Acid in LCMS Methanol (Mobile Phase B) (Lot: 082818)**

Component	Source	Source Lot Number
Formic Acid	Fisher	095180B
MeOH (LCMS Grade)	Fisher	177145
Prepared:	08/28/18	
Prepared By:	Tamara Salazar	

Needle Rinse (75% LCMS MeOH in LCMS Water) (Lot: 090418)

Component	Source	Source Lot Number
MeOH (LCMS Grade)	Fisher	177145
Water (LCMS Grade)	Fisher	181370
Prepared:	09/04/18	
Prepared By:	Sarah Pickle	

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

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1a.batch.bin		
Analysis Time	9/6/2018 9:57 AM	**Analyst Name**	ISPUser
Report Time	9/6/2018 2:41 PM	**Reporter Name**	ISPUser
Last Calib Update	9/6/2018 9:56 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-09-05 18:09	**Data File**	a Negative control.d
Sample Type	Sample	**Sample Name**	a Negative control.d
Dilution	1	**Acq Method**	MD Quant Panel 1a 7-11-18.m
Position	P1-D11	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28

Sample Chromatogram
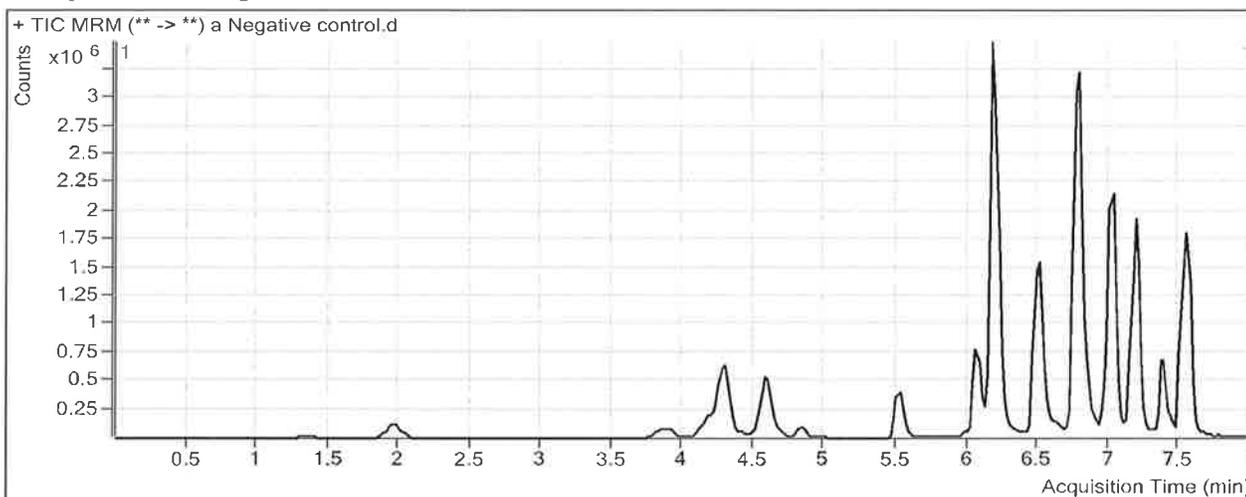
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Amphetamine	Amphetamine-D11	4.303	600316	909718	0.6599	2.9674 <10
Alprazolam	Alprazolam-D5	7.568	37858	4904550	0.0077	0.2023 <5

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1a.batch.bin		
Analysis Time	9/6/2018 9:57 AM	**Analyst Name**	ISPUser
Report Time	9/6/2018 2:41 PM	**Reporter Name**	ISPUser
Last Calib Update	9/6/2018 9:56 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-09-05 18:40	**Data File**	a External control-50ng mL.d
Sample Type	Sample	**Sample Name**	a External control-50ng mL.d
Dilution	1	**Acq Method**	MD Quant Panel 1a 7-11-18.m
Position	P1-C11	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28; WS121217 50 ng trazodone, ketamine, morphine, quetiapine

Sample Chromatogram

+ TIC MRM (** -> **) a External control-50ng mL.d
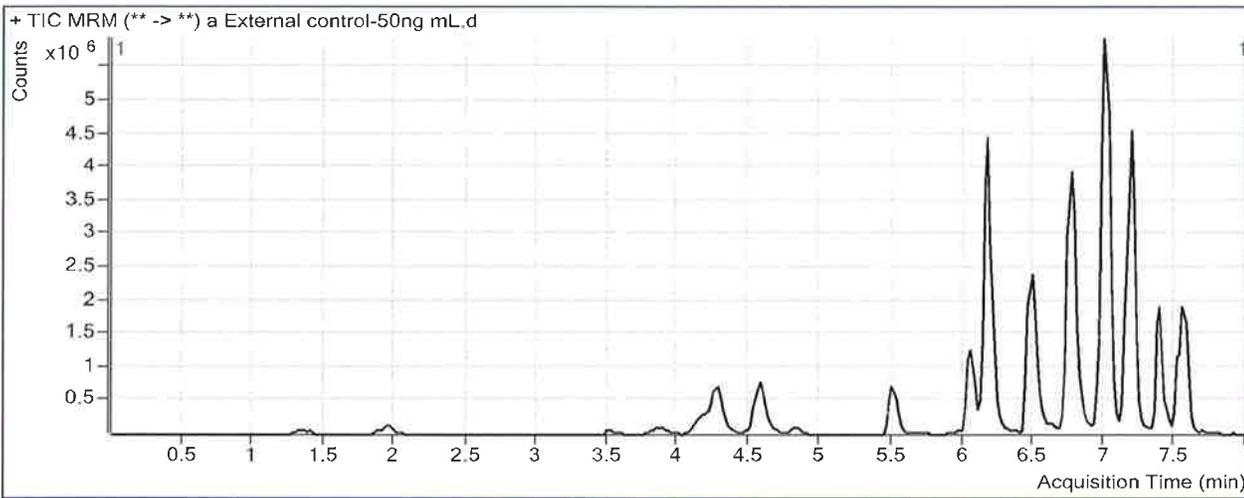
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.348	271284	112964	2.4015	42.2259
Amphetamine	Amphetamine-D11	4.303	453500	1554036	0.2918	0.0000
Trazodone	Trazodone-D6	6.996	4497209	3546894	1.2679	45.9740

TS ⌒

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

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1a.batch.bin		
Analysis Time	9/6/2018 9:57 AM	**Analyst Name**	ISPUser
Report Time	9/6/2018 2:41 PM	**Reporter Name**	ISPUser
Last Calib Update	9/6/2018 9:56 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-09-05 19:43	**Data File**	a QC 10 (QC1).d
Sample Type	QC	**Sample Name**	a QC 10 (QC1).d
Dilution	1	**Acq Method**	MD Quant Panel 1a 7-11-18.m
Position	P1-H11	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28

Sample Chromatogram

+ TIC MRM (** -> **) a QC 10 (QC1).d
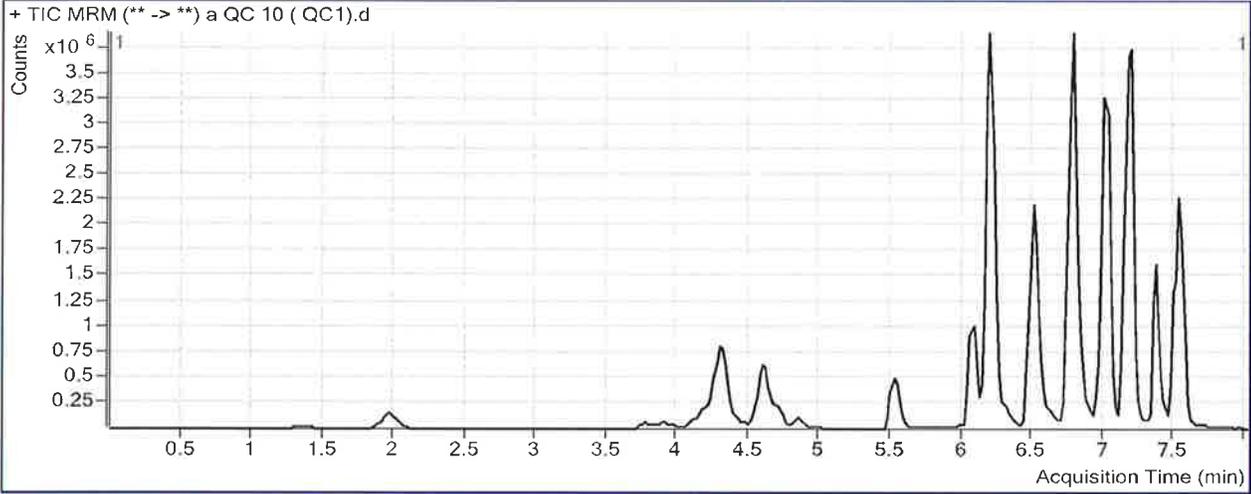
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.368	45851	94584	0.4848	9.6786
Hydromorphone	Hydromorphone-D6	1.989	176764	776046	0.2278	9.3268
Codeine	Codeine-D6	3.972	72751	333943	0.2179	10.5032 **
Amphetamine	Amphetamine-D11	4.323	1421133	1090741	1.3029	11.6606
Oxycodone	Oxycodone-D6	4.330	662779	3061278	0.2165	9.4670
Hydrocodone	Hydrocodone-D6	4.635	229670	1578415	0.1455	10.2262
Norhydrocodone	Norhydrocodone-D3	4.678	11527	392097	0.0294	10.6522
Methamphetamine	Methamphetamine-D11	4.702	545344	1480330	0.3684	9.2881
6-MAM	6-MAM-D6	4.849	6762	326752	0.0207	0.9687
Phentermine	Phentermine-D5	5.566	190642	2202813	0.0865	9.5885
Dextrorphan	Dextrorphan-D3	6.083	319556	3017847	0.1059	9.4351
7-aminoclonazepam	7-Aminoclonazepam-D4	6.174	382182	1752588	0.2181	9.6664
Tramadol	Tramadol-13C-D3	6.203	2265246	12337354	0.1836	10.1157
Metoprolol	Tramadol-13C-D3	6.322	185384	12337354	0.0150	9.2695
Doxylamine	Doxylamine-D5	6.522	1190188	7987046	0.1490	9.4513
Bupropion	Bupropion-D9	6.791	340692	1322808	0.2576	9.2795
Zolpidem	Zolpidem-D6	6.801	1778688	12137273	0.1465	9.0396
Meprobamate	Meprobamate-D7	6.873	162709	588286	0.2766	10.6956
Trazodone	Trazodone-D6	6.996	599176	2295519	0.2610	9.9861
Venlafaxine	Venlafaxine-D6	7.026	1727906	7469970	0.2313	9.8569

** Did not evaluate

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Citalopram	Citalopram-D6	7.139	654379	3396899	0.1926	9.7956
Dextromethorphan	Dextromethorphan-D3	7.171	238246	1076368	0.2213	9.8448
Diphenhydramine	Diphenhydramine-D3	7.194	1355963	7525072	0.1802	9.7339
Promethazine	Promethazine-D3	7.369	960215	3890729	0.2468	9.9124
Clonazepam	Clonazepam-D4	7.405	163074	176131	0.9259	8.5138
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.481	53254	301466	0.1767	9.1626
Carisoprodol	Carisoprodol-D7	7.494	526645	2374713	0.2218	10.1328
Lorazepam	Clonazepam-D4	7.523	59695	176131	0.3389	12.8354
Alprazolam	Alprazolam-D5	7.548	1215145	4180829	0.2906	9.5042

TS

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1a.batch.bin
Analysis Time	9/6/2018 9:57 AM
Report Time	9/6/2018 2:42 PM
Last Calib Update	9/6/2018 9:56 AM

Analyst Name	ISPUser
Reporter Name	ISPUser
Batch State	Processed

Analysis Info

Acq Time	2018-09-05 21:17	**Data File**	a QC 100 (QC2).d
Sample Type	QC	**Sample Name**	a QC 100 (QC2).d
Dilution	1	**Acq Method**	MD Quant Panel 1a 7-11-18.m
Position	P1-G11	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28

Sample Chromatogram

+ TIC MRM (** -> **) a QC 100 (QC2).d
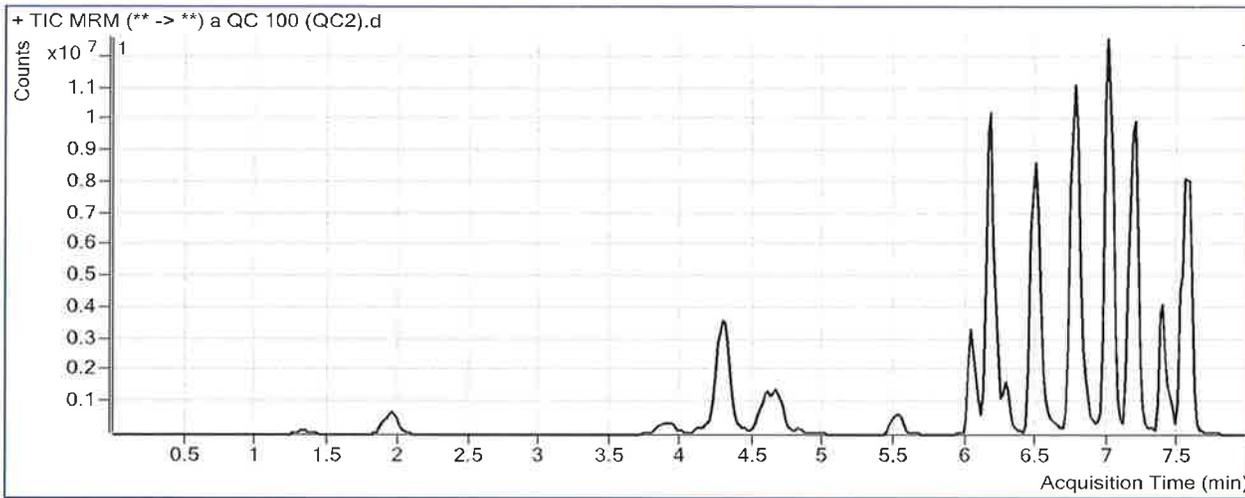
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.348	543223	87805	6.1867	106.4996
Hydromorphone	Hydromorphone-D6	1.949	2151820	778945	2.7625	93.0932
Codeine	Codeine-D6	3.912	831203	329971	2.5190	111.1827 **
Amphetamine	Amphetamine-D11	4.283	7811120	1001703	7.7978	99.4689
Oxycodone	Oxycodone-D6	4.290	8194126	3080041	2.6604	100.9211
Hydrocodone	Hydrocodone-D6	4.594	2728657	1622731	1.6815	92.4838
Norhydrocodone	Norhydrocodone-D3	4.638	130790	384208	0.3404	88.9167
Methamphetamine	Methamphetamine-D11	4.661	4795283	1106155	4.3351	96.8416
6-MAM	6-MAM-D6	4.829	79872	324340	0.2463	9.8063
Phentermine	Phentermine-D5	5.546	1971438	1814303	1.0866	91.4172
Dextrorphan	Dextrorphan-D3	6.043	3778731	2893556	1.3059	98.7875
7-aminoclonazepam	7-Aminoclonazepam-D4	6.134	4260181	1661470	2.5641	102.0565
Tramadol	Tramadol-13C-D3	6.180	24301806	13039751	1.8637	99.6213
Metoprolol	Tramadol-13C-D3	6.281	2121819	13039751	0.1627	92.8310
Doxylamine	Doxylamine-D5	6.483	14067075	7786028	1.8067	103.8354
Bupropion	Bupropion-D9	6.751	3116664	1084939	2.8727	82.3481
Zolpidem	Zolpidem-D6	6.779	20475374	12216902	1.6760	111.4189
Meprobamate	Meprobamate-D7	6.853	1854663	607904	3.0509	99.2580
Trazodone	Trazodone-D6	6.975	6645636	2138312	3.1079	111.7358
Venlafaxine	Venlafaxine-D6	7.006	18569344	7109597	2.6119	109.7850

** Did not evaluate

TS P

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Citalopram	Citalopram-D6	7.139	6278708	2932249	2.1413	95.4996
Dextromethorphan	Dextromethorphan-D3	7.171	2434624	914569	2.6620	98.0683
Diphenhydramine	Diphenhydramine-D3	7.194	13068145	6624458	1.9727	102.6424
Promethazine	Promethazine-D3	7.389	8204957	3080407	2.6636	97.2498
Clonazepam	Clonazepam-D4	7.425	1933577	158792	12.1768	92.9758
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.501	668076	262865	2.5415	103.5048
Carisoprodol	Carisoprodol-D7	7.534	5386553	2233456	2.4118	102.5336
Lorazepam	Clonazepam-D4	7.543	599301	158792	3.7741	71.9563
Alprazolam	Alprazolam-D5	7.568	12832067	3814399	3.3641	110.5504

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

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1a.batch.bin		
Analysis Time	9/6/2018 9:57 AM	**Analyst Name**	ISPUser
Report Time	9/6/2018 2:42 PM	**Reporter Name**	ISPUser
Last Calib Update	9/6/2018 9:56 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-09-05 23:54	**Data File**	a QC 250 (QC 3).d
Sample Type	QC	**Sample Name**	a QC 250 (QC 3).d
Dilution	1	**Acq Method**	MD Quant Panel 1a 7-11-18.m
Position	P1-F11	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28

Sample Chromatogram

+ TIC MRM (** -> **) a QC 250 (QC 3).d
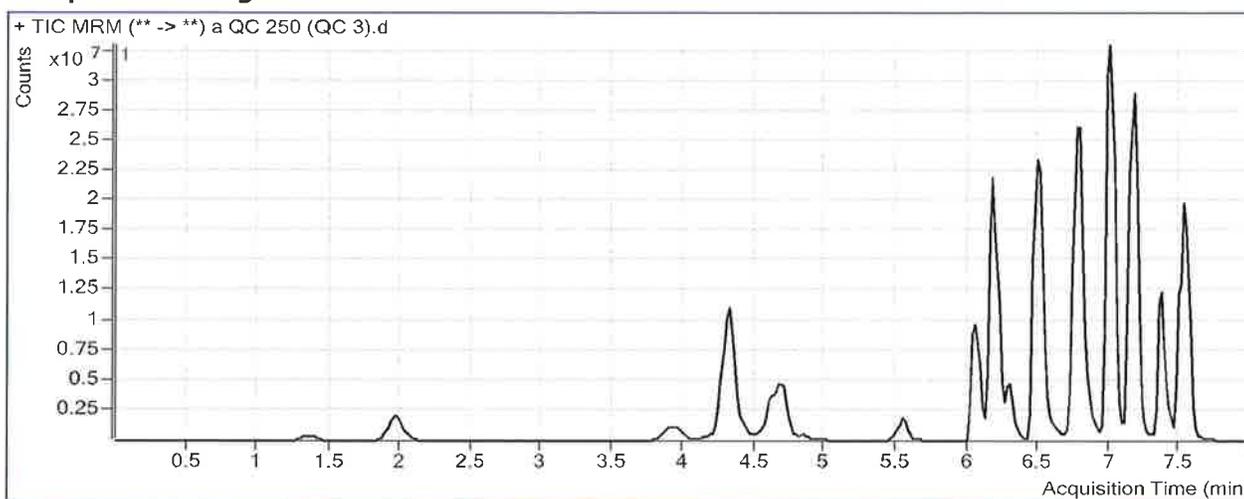
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.368	1880027	116034	16.2024	276.5713
Hydromorphone	Hydromorphone-D6	1.969	7287079	963620	7.5622	251.7129
Codeine	Codeine-D6	3.932	2764877	407581	6.7836	297.7655 ✱ ✱
Amphetamine	Amphetamine-D11	4.303	24761961	1267872	19.5303	258.0863
Oxycodone	Oxycodone-D6	4.310	27778090	3935333	7.0586	265.5100
Hydrocodone	Hydrocodone-D6	4.615	8826707	1958935	4.5059	243.7351
Norhydrocodone	Norhydrocodone-D3	4.658	393149	419994	0.9361	238.8113
Methamphetamine	Methamphetamine-D11	4.702	17215663	1637448	10.5137	233.2170
6-MAM	6-MAM-D6	4.829	266639	402337	0.6627	26.1231
Phentermine	Phentermine-D5	5.546	7245810	2403040	3.0153	249.2267
Dextrorphan	Dextrorphan-D3	6.063	13393847	3911576	3.4242	256.5096
7-aminoclonazepam	7-Aminoclonazepam-D4	6.154	12691213	1952963	6.4984	256.9962
Tramadol	Tramadol-13C-D3	6.180	62633494	16493104	3.7976	202.6495
Metoprolol	Tramadol-13C-D3	6.302	6814834	16493104	0.4132	234.5433
Doxylamine	Doxylamine-D5	6.483	45956082	10550402	4.3559	248.9767
Bupropion	Bupropion-D9	6.751	10261526	1290186	7.9535	224.3120
Zolpidem	Zolpidem-D6	6.779	54090251	14528527	3.7230	248.4464
Meprobamate	Meprobamate-D7	6.853	5756222	709146	8.1171	260.9815
Trazodone	Trazodone-D6	6.975	22500042	2894248	7.7741	278.5088
Venlafaxine	Venlafaxine-D6	7.006	53658300	9034076	5.9395	249.4700

✱✱ Did not evaluate

TS P

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Citalopram	Citalopram-D6	7.139	21512936	3630195	5.9261	261.9644
Dextromethorphan	Dextromethorphan-D3	7.171	8017006	1213119	6.6086	240.7229
Diphenhydramine	Diphenhydramine-D3	7.194	38645476	8417585	4.5910	238.3537
Promethazine	Promethazine-D3	7.369	28808065	4251197	6.7765	245.8791
Clonazepam	Clonazepam-D4	7.405	6192645	184778	33.5140	253.1571
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.481	1999387	319237	6.2630	251.9679
Carisoprodol	Carisoprodol-D7	7.494	14068444	2128184	6.6105	279.6907
Lorazepam	Clonazepam-D4	7.523	2385316	184778	12.9091	229.1725
Alprazolam	Alprazolam-D5	7.548	33118698	3965995	8.3507	274.4931

TS ℘

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1a.batch.bin		
Analysis Time	9/6/2018 9:57 AM	**Analyst Name**	ISPUser
Report Time	9/6/2018 2:43 PM	**Reporter Name**	ISPUser
Last Calib Update	9/6/2018 9:56 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-09-06 02:32	**Data File**	a QC 1000 (QC 4).d
Sample Type	QC	**Sample Name**	a QC 1000 (QC 4).d
Dilution	1	**Acq Method**	MD Quant Panel 1a 7-11-18.m
Position	P1-E11	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28

Sample Chromatogram

+ TIC MRM (** -> **) a QC 1000 (QC 4).d
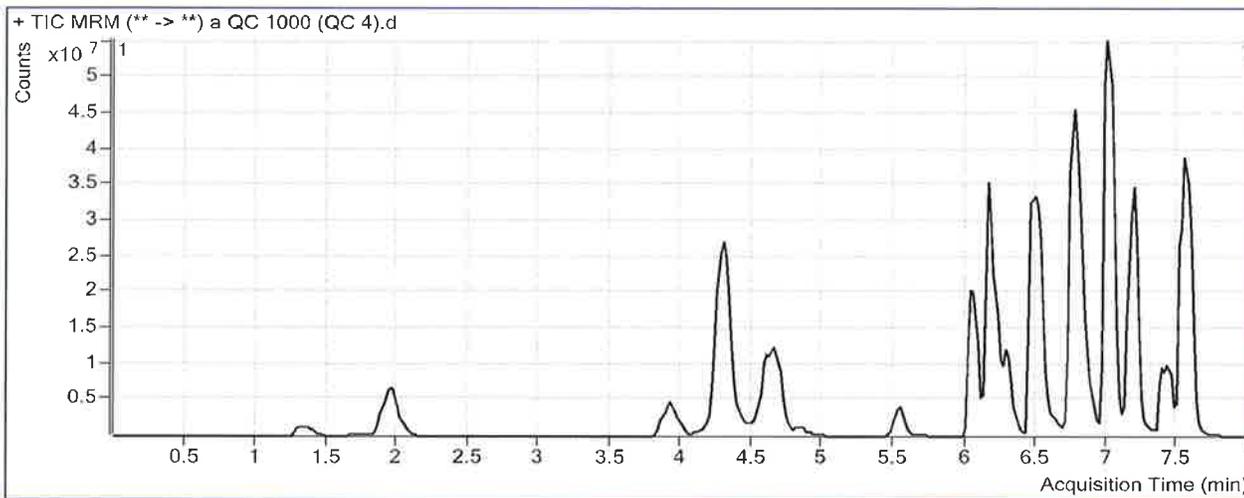
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc	
Morphine	Morphine-D6	1.348	7186509	106270	67.6251	1149.7496	
Hydromorphone	Hydromorphone-D6	1.949	26089205	805067	32.4063	1072.7537	
Codeine	Codeine-D6	3.912	9316996	341018	27.3211	1196.3119	** **
Amphetamine	Amphetamine-D11	4.283	57533494	955989	60.1822	807.6787	
Oxycodone	Oxycodone-D6	4.290	92001690	3513254	26.1870	981.3236	
Hydrocodone	Hydrocodone-D6	4.594	31674899	1741749	18.1857	976.3244	
Norhydrocodone	Norhydrocodone-D3	4.638	1397381	284861	4.9055	1237.6777	
Methamphetamine	Methamphetamine-D11	4.682	42135652	939885	44.8307	990.6651	
6-MAM	6-MAM-D6	4.829	1051557	362875	2.8979	113.6941	
Phentermine	Phentermine-D5	5.546	19971155	1742680	11.4600	940.2058	
Dextrorphan	Dextrorphan-D3	6.043	35235051	2511354	14.0303	1046.2317	
7-aminoclonazepam	7-Aminoclonazepam-D4	6.154	35806447	1468427	24.3842	961.3634	
Tramadol	Tramadol-13C-D3	6.180	105054874	12182718	8.6233	459.7405	*
Metoprolol	Tramadol-13C-D3	6.302	18910858	12182718	1.5523	879.0068	
Doxylamine	Doxylamine-D5	6.483	98436455	8987428	10.9527	624.5802	*
Bupropion	Bupropion-D9	6.751	29218454	901733	32.4026	907.4406	
Zolpidem	Zolpidem-D6	6.779	110335960	12014753	9.1834	613.9561	*
Meprobamate	Meprobamate-D7	6.873	21079411	597310	35.2906	1128.4134	
Trazodone	Trazodone-D6	6.996	51046459	1918345	26.6096	951.7095	
Venlafaxine	Venlafaxine-D6	7.006	94843731	7203148	13.1670	552.8546	*

** Did not evaluate
* outside curve range

TS P

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Citalopram	Citalopram-D6	7.159	30653679	1340707	22.8638	1006.9167
Dextromethorphan	Dextromethorphan-D3	7.191	10167771	317528	32.0217	1159.3234
~~Diphenhydramine~~	~~Diphenhydramine-D3~~	~~7.194~~	~~52725789~~	~~3204872~~	~~16.4518~~	~~853.1098~~ ✷
~~Promethazine~~	~~Promethazine-D3~~	~~7.389~~	~~23293305~~	~~819159~~	~~28.4356~~	~~1028.5905~~ ✷
Clonazepam	Clonazepam-D4	7.445	20468355	172427	118.7071	892.7130
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.501	8405114	313639	26.7987	1071.2024
Carisoprodol	Carisoprodol-D7	7.534	36233046	1531140	23.6641	999.2223
Lorazepam	Clonazepam-D4	7.543	8983513	172427	52.1003	903.6662
Alprazolam	Alprazolam-D5	7.568	66643390	2494309	26.7182	878.3609

ISP Forensics
Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1a.batch.bin

Last Calib Update 9/6/2018 9:56 AM **Analyst Name** ISP TOX

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

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

y = 0.058891 * x - 0.085220
R^2 = 0.98099761
Type:Linear, Origin:Ignore, Weight:1/x^2
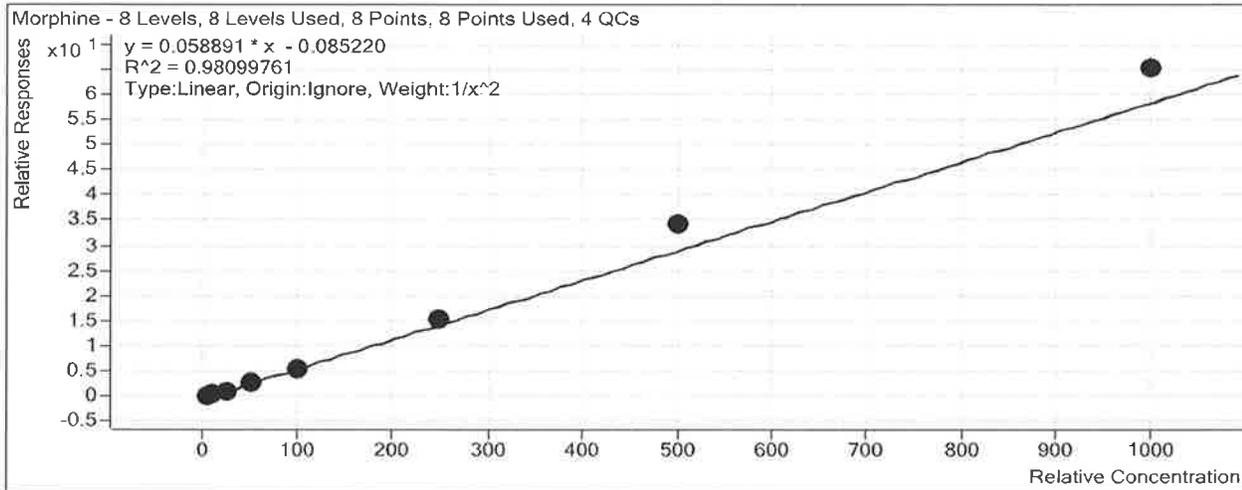
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng.d	1	☑	5	5.3	105.2
a cal 2-10ng.d	2	☑	10	9.9	99.5
a QC 10 (QC1).d	2	☑	10	9.7	96.8
a cal 3-25ng.d	3	☑	25	20.0	80.1
a cal 4-50ng.d	4	☑	50	46.0	92.1
a cal 5-100ng.d	5	☑	100	90.3	90.3
a QC 100 (QC2).d	5	☑	100	106.5	106.5
a cal 6-250ng.d	6	☑	250	261.5	104.6
a QC 250 (QC 3).d	6	☑	250	276.6	110.6
a cal 7-500ng.d	7	☑	500	586.9	117.4
a cal 8-1000ng.d	8	☑	1000	1108.6	110.9
a QC 1000 (QC 4).d	8	☑	1000	1149.7	115.0

TS ⟍

Batch Data Path   C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1a.batch.bin

Last Calib Update   9/6/2018 9:56 AM   **Analyst Name**   ISP TOX

Target Compound   *Hydromorphone*
Internal Standard   *Hydromorphone-D6*

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

$y = 0.030259 * x - 0.054446$
$R^2 = 0.98718965$
Type:Linear, Origin:Ignore, Weight:$1/x^2$
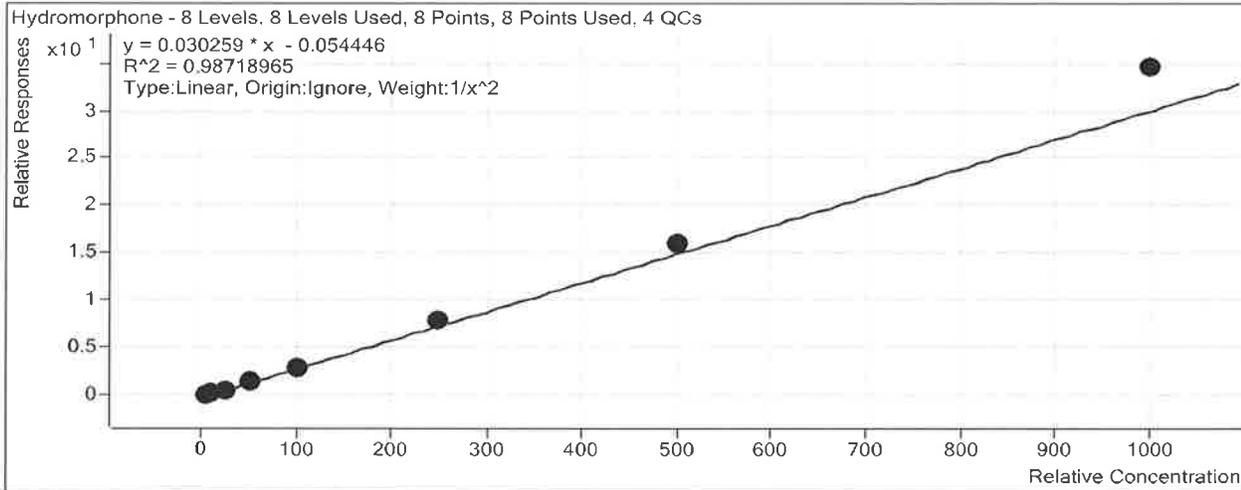
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng.d	1	☑	5	5.4	107.2
a cal 2-10ng.d	2	☑	10	9.3	93.1
a QC 10 (QC1).d	2	☑	10	9.3	93.3
a cal 3-25ng.d	3	☑	25	21.1	84.5
a cal 4-50ng.d	4	☑	50	47.1	94.3
a cal 5-100ng.d	5	☑	100	94.5	94.5
a QC 100 (QC2).d	5	☑	100	93.1	93.1
a cal 6-250ng.d	6	☑	250	263.4	105.4
a QC 250 (QC 3).d	6	☑	250	251.7	100.7
a cal 7-500ng.d	7	☑	500	533.7	106.7
a cal 8-1000ng.d	8	☑	1000	1144.1	114.4
a QC 1000 (QC 4).d	8	☑	1000	1072.8	107.3

Batch Data Path   C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1a.batch.bin

Last Calib Update   9/6/2018 9:56 AM   **Analyst Name**   ISP TOX

Target Compound   *Codeine*
Internal Standard   *Codeine-D6*

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

$y = 0.022856 * x - 0.022211$
$R^2 = 0.92444735$
Type:Linear, Origin:Ignore, Weight:$1/x^2$
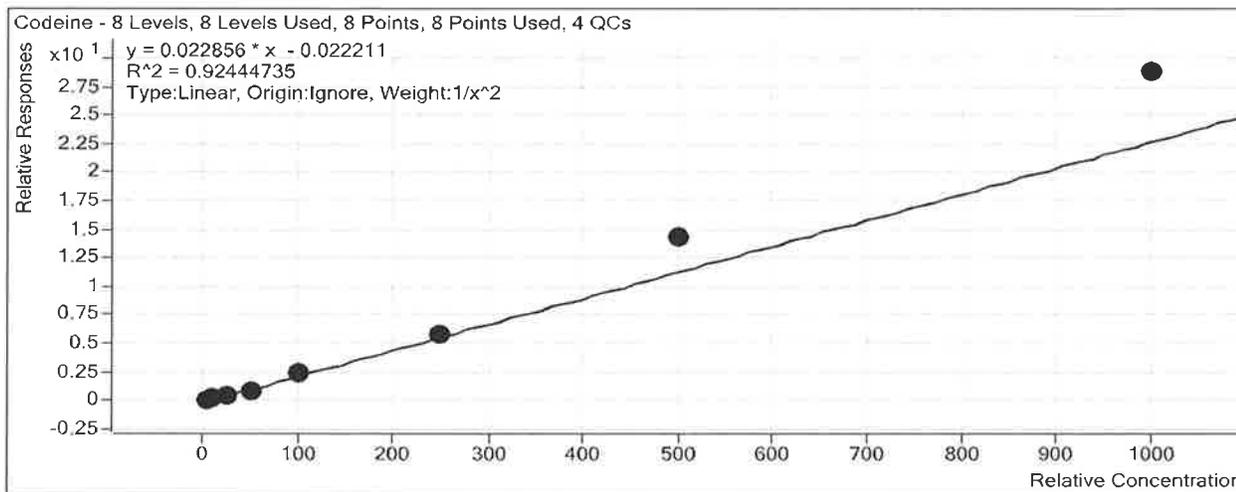
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng.d	1	☑	5	5.5	110.2
a cal 2-10ng.d	2	☑	10	10.0	100.4
a QC 10 (QC1).d	2	☑	10	10.5	105.0
a cal 3-25ng.d	3	☑	25	15.2	60.7
a cal 4-50ng.d	4	☑	50	32.5	65.1
a cal 5-100ng.d	5	☑	100	110.1	110.1
a QC 100 (QC2).d	5	☑	100	111.2	111.2
a cal 6-250ng.d	6	☑	250	254.3	101.7
a QC 250 (QC 3).d	6	☑	250	297.8	119.1
a cal 7-500ng.d	7	☑	500	629.6	125.9
a cal 8-1000ng.d	8	☑	1000	1257.9	125.8
a QC 1000 (QC 4).d	8	☑	1000	1196.3	119.6

Did not evaluate codeine. P

ISP Forensics
Calibration Curve Report

TS

**Batch Data Path**   C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1a.batch.bin

Last Calib Update   9/6/2018 9:56 AM   **Analyst Name**   ISP TOX

Target Compound   *Amphetamine*
Internal Standard   *Amphetamine-D11*

Amphetamine - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 4 QCs

$y = 0.073967 * x + 0.440404$
$R^2 = 0.98461197$
Type:Linear, Origin:Ignore, Weight:$1/x^2$
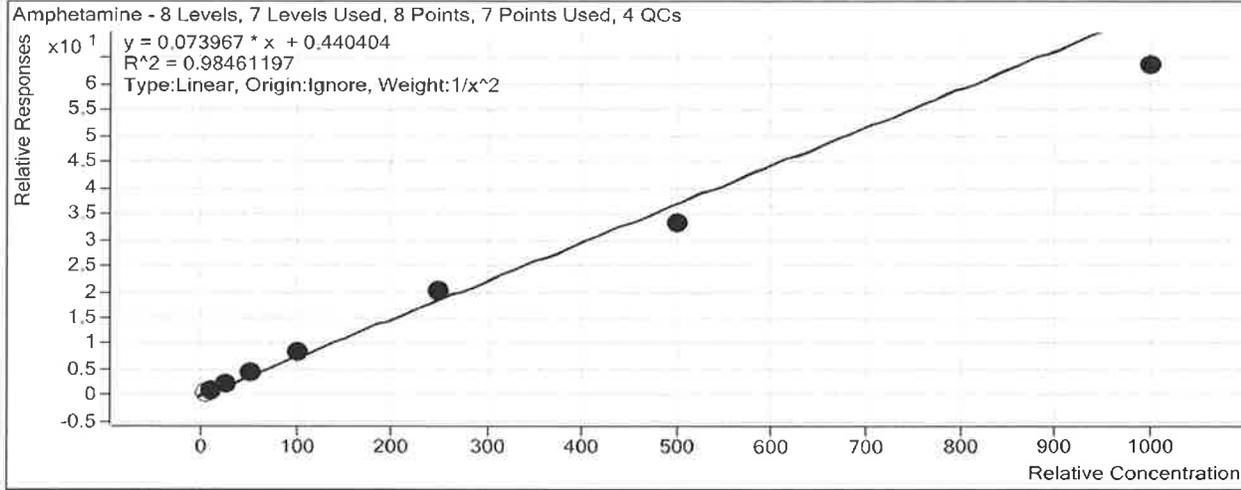
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng.d	1	☐	5	4.3	86.3
a cal 2-10ng.d	2	☑	10	9.5	95.4
a QC 10 (QC1).d	2	☐	10	11.7	116.6
a cal 3-25ng.d	3	☑	25	25.6	102.5
a cal 4-50ng.d	4	☑	50	57.7	115.3
a cal 5-100ng.d	5	☑	100	106.8	106.8
a QC 100 (QC2).d	5	☑	100	99.5	99.5
a cal 6-250ng.d	6	☑	250	265.2	106.1
a QC 250 (QC 3).d	6	☑	250	258.1	103.2
a cal 7-500ng.d	7	☑	500	441.9	88.4
a cal 8-1000ng.d	8	☑	1000	855.3	85.5
a QC 1000 (QC 4).d	8	☑	1000	807.7	80.8

TS

Batch Data Path   C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1a.batch.bin

Last Calib Update   9/6/2018 9:56 AM   **Analyst Name**   ISP TOX

Target Compound   *Oxycodone*
Internal Standard   *Oxycodone-D6*

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

$y = 0.026723 * x - 0.036479$
$R^2 = 0.99463306$
Type:Linear, Origin:Ignore, Weight:$1/y^2$
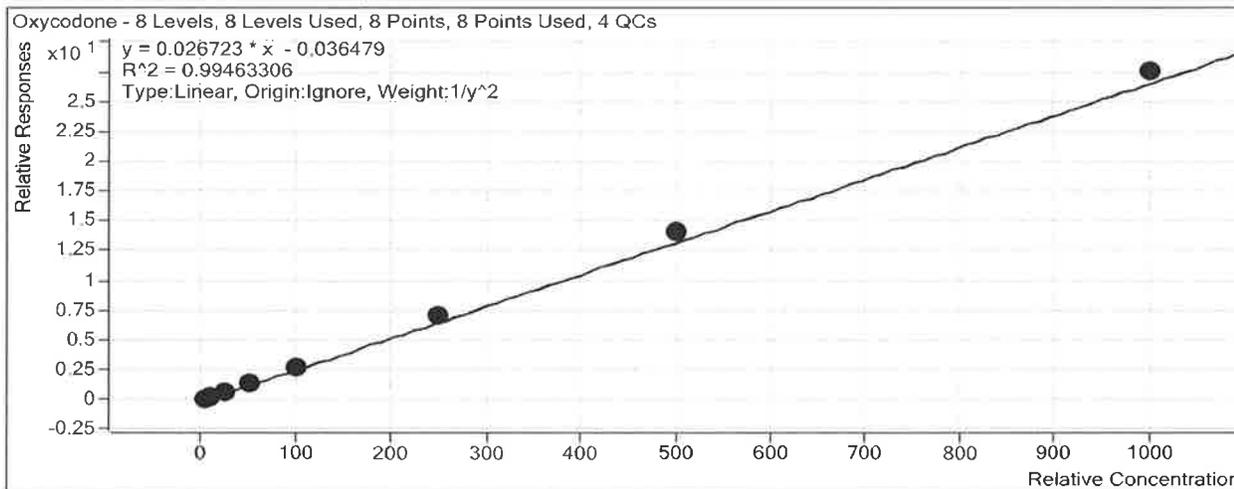
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng.d	1	☑	5	5.2	103.8
a cal 2-10ng.d	2	☑	10	9.5	94.8
a QC 10 (QC1).d	2	☑	10	9.5	94.7
a cal 3-25ng.d	3	☑	25	22.5	89.9
a cal 4-50ng.d	4	☑	50	50.8	101.7
a cal 5-100ng.d	5	☑	100	99.7	99.7
a QC 100 (QC2).d	5	☑	100	100.9	100.9
a cal 6-250ng.d	6	☑	250	266.4	106.6
a QC 250 (QC 3).d	6	☑	250	265.5	106.2
a cal 7-500ng.d	7	☑	500	530.4	106.1
a cal 8-1000ng.d	8	☑	1000	1031.4	103.1
a QC 1000 (QC 4).d	8	☑	1000	981.3	98.1

ISP Forensics
Calibration Curve Report

TSP

Batch Data Path   C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1a.batch.bin

Last Calib Update   9/6/2018 9:56 AM   **Analyst Name**   ISP TOX

Target Compound   *Hydrocodone*
Internal Standard   *Hydrocodone-D6*

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

$y = 0.018673 * x - 0.045450$
$R^2 = 0.99948068$
Type:Linear, Origin:Ignore, Weight:1/x
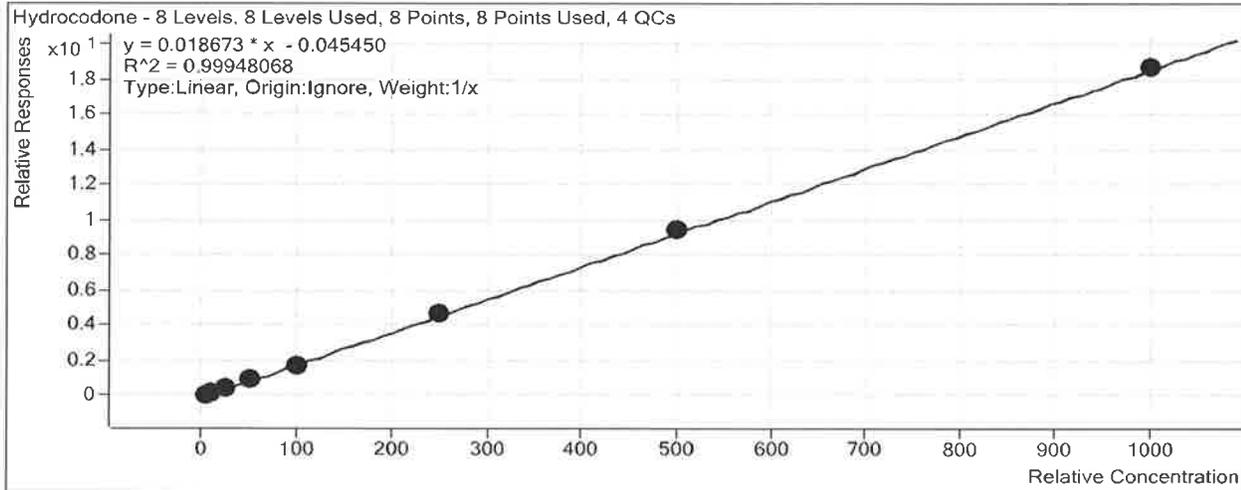
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng.d	1	☑	5	6.1	121.4
a cal 2-10ng.d	2	☑	10	9.6	96.3
a QC 10 (QC1).d	2	☑	10	10.2	102.3
a cal 3-25ng.d	3	☑	25	21.8	87.0
a cal 4-50ng.d	4	☑	50	48.9	97.8
a cal 5-100ng.d	5	☑	100	95.8	95.8
a QC 100 (QC2).d	5	☑	100	92.5	92.5
a cal 6-250ng.d	6	☑	250	251.7	100.7
a QC 250 (QC 3).d	6	☑	250	243.7	97.5
a cal 7-500ng.d	7	☑	500	504.4	100.9
a cal 8-1000ng.d	8	☑	1000	1001.8	100.2
a QC 1000 (QC 4).d	8	☑	1000	976.3	97.6

ISP Forensics
Calibration Curve Report

Batch Data Path   C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1a.batch.bin

Last Calib Update   9/6/2018 9:56 AM   **Analyst Name**   ISP TOX

Target Compound   *Norhydrocodone*
Internal Standard   *Norhydrocodone-D3*

Norhydrocodone - 8 Levels, 6 Levels Used, 8 Points, 6 Points Used, 4 QCs

y = 0.003974 * x - 0.012932
R^2 = 0.98371595
Type:Linear, Origin:Ignore, Weight:1/x^2
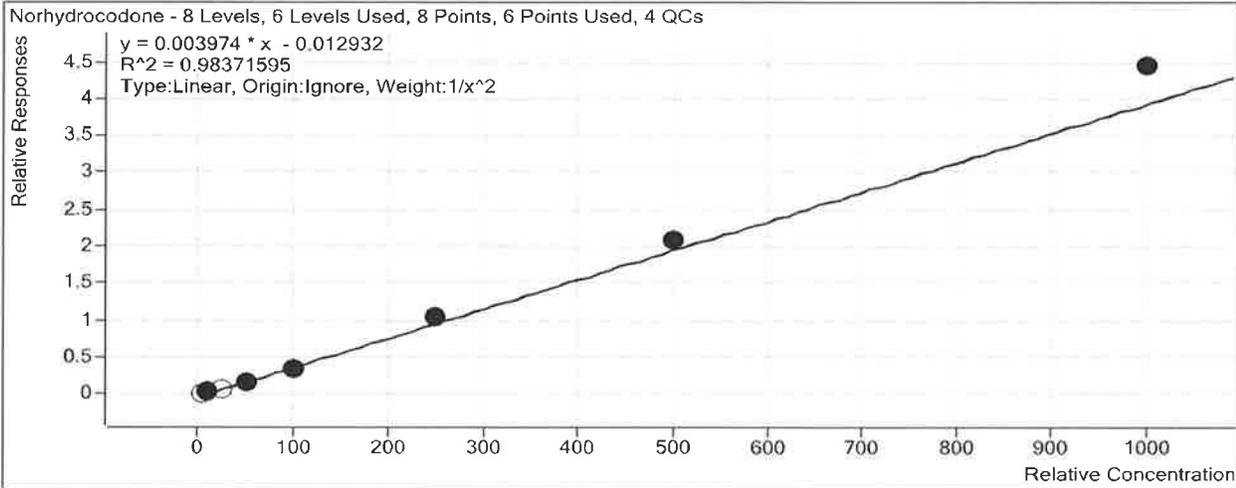
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng.d	1	☐	5	6.7	133.9
a cal 2-10ng.d	2	☑	10	10.4	104.0
a QC 10 (QC1).d	2	☐	10	10.7	106.5
a cal 3-25ng.d	3	☐	25	22.4	89.4
a cal 4-50ng.d	4	☑	50	42.2	84.3
a cal 5-100ng.d	5	☑	100	86.1	86.1
a QC 100 (QC2).d	5	☑	100	88.9	88.9
a cal 6-250ng.d	6	☑	250	270.4	108.2
a QC 250 (QC 3).d	6	☑	250	238.8	95.5
a cal 7-500ng.d	7	☑	500	526.0	105.2
a cal 8-1000ng.d	8	☑	1000	1122.3	112.2
a QC 1000 (QC 4).d	8	☑	1000	1237.7	123.8

Calibrator 3 dropped due to poor secondary peak.

Batch Data Path C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1a.batch.bin

Last Calib Update 9/6/2018 9:56 AM **Analyst Name** ISP TOX

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

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

$y = 0.045306 * x - 0.052416$
$R^2 = 0.99608341$
Type:Linear, Origin:Ignore, Weight:1/x^2
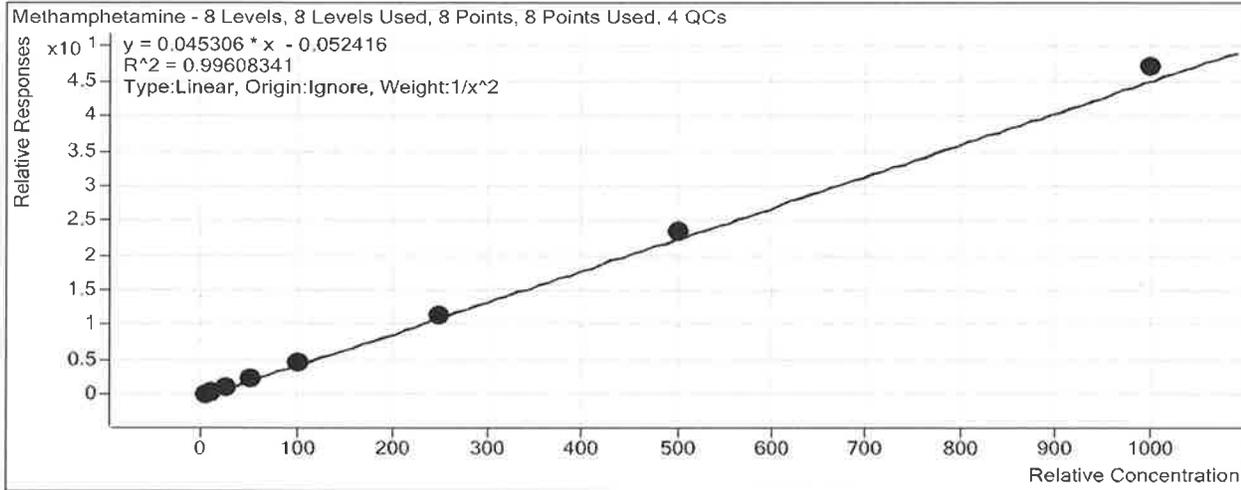
| Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng.d	1	☑	5	5.1	102.1
a cal 2-10ng.d	2	☑	10	10.1	100.9
a QC 10 (QC1).d	2	☑	10	9.3	92.9
a cal 3-25ng.d	3	☑	25	21.8	87.1
a cal 4-50ng.d	4	☑	50	49.6	99.1
a cal 5-100ng.d	5	☑	100	101.8	101.8
a QC 100 (QC2).d	5	☑	100	96.8	96.8
a cal 6-250ng.d	6	☑	250	254.0	101.6
a QC 250 (QC 3).d	6	☑	250	233.2	93.3
a cal 7-500ng.d	7	☑	500	517.3	103.5
a cal 8-1000ng.d	8	☑	1000	1040.0	104.0
a QC 1000 (QC 4).d	8	☑	1000	990.7	99.1

Batch Data Path   C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1a.batch.bin

Last Calib Update   9/6/2018 9:56 AM   **Analyst Name**   ISP TOX

Target Compound   *6-MAM*
Internal Standard   *6-MAM-D6*

6-MAM - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs

$y = 0.025524 * x - 0.004031$
$R^2 = 0.98981791$
Type:Linear, Origin:Ignore, Weight:$1/x^2$

Relative Responses vs Relative Concentration
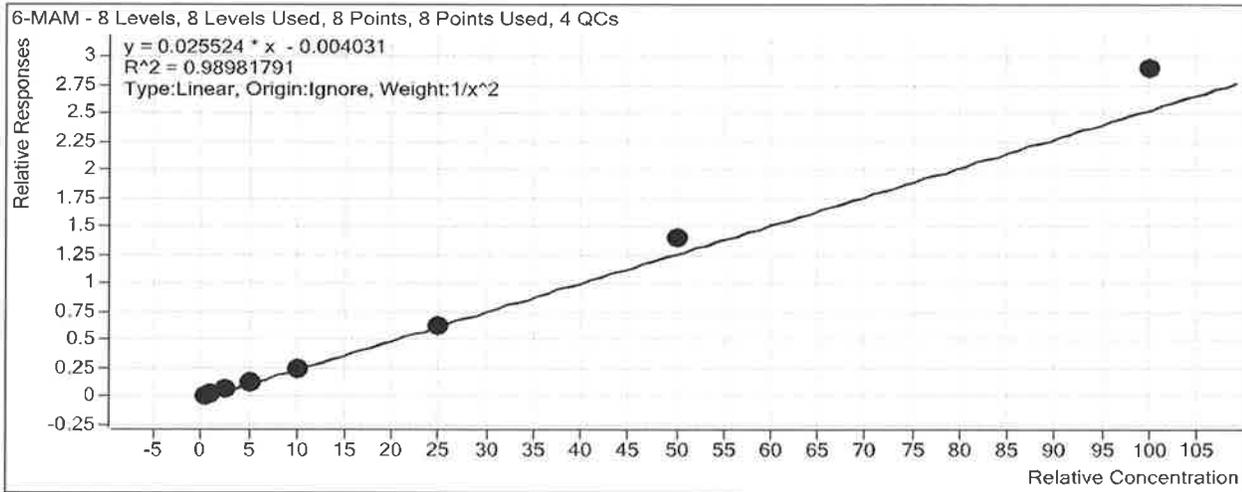
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng.d	1	☑	0.5	0.5	106.0
a cal 2-10ng.d	2	☑	1	0.9	93.7
a QC 10 (QC1).d	2	☑	1	1.0	96.9
a cal 3-25ng.d	3	☑	2.5	2.2	88.4
a cal 4-50ng.d	4	☑	5	4.9	97.2
a cal 5-100ng.d	5	☑	10	9.3	93.5
a QC 100 (QC2).d	5	☑	10	9.8	98.1
a cal 6-250ng.d	6	☑	25	24.5	98.0
a QC 250 (QC 3).d	6	☑	25	26.1	104.5
a cal 7-500ng.d	7	☑	50	54.9	109.8
a cal 8-1000ng.d	8	☑	100	113.5	113.5
a QC 1000 (QC 4).d	8	☑	100	113.7	113.7

ISP Forensics
Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1a.batch.bin

Last Calib Update 9/6/2018 9:56 AM   **Analyst Name**   ISP TOX

Target Compound *Phentermine*
Internal Standard *Phentermine-D5*

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

$y = 0.012221 * x - 0.030640$
$R^2 = 0.99753150$
Type:Linear, Origin:Ignore, Weight:1/x
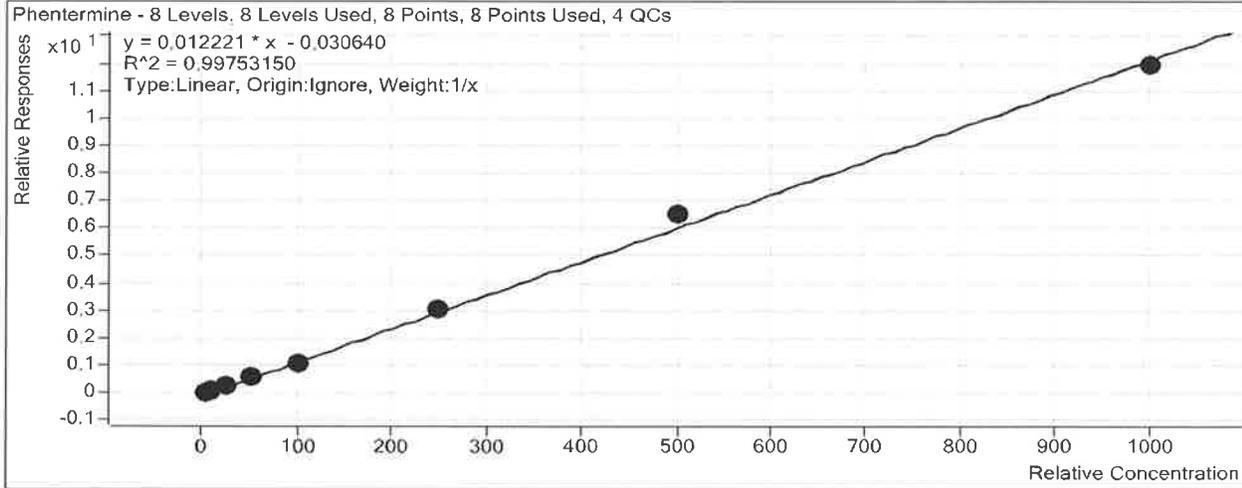
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng.d	1	☑	5	6.0	119.3
a cal 2-10ng.d	2	☑	10	10.1	101.1
a QC 10 (QC1).d	2	☑	10	9.6	95.9
a cal 3-25ng.d	3	☑	25	21.4	85.7
a cal 4-50ng.d	4	☑	50	49.4	98.8
a cal 5-100ng.d	5	☑	100	90.1	90.1
a QC 100 (QC2).d	5	☑	100	91.4	91.4
a cal 6-250ng.d	6	☑	250	251.1	100.5
a QC 250 (QC 3).d	6	☑	250	249.2	99.7
a cal 7-500ng.d	7	☑	500	533.4	106.7
a cal 8-1000ng.d	8	☑	1000	978.5	97.8
a QC 1000 (QC 4).d	8	☑	1000	940.2	94.0

TS P

Batch Data Path   C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1a.batch.bin

Last Calib Update   9/6/2018 9:56 AM   **Analyst Name**   ISP TOX

__Target Compound__   *Dextrorphan*
Internal Standard   *Dextrorphan-D3*

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

$y = 0.013430 * x - 0.020826$
$R^2 = 0.99531377$
Type:Linear, Origin:Ignore, Weight:$1/x^2$
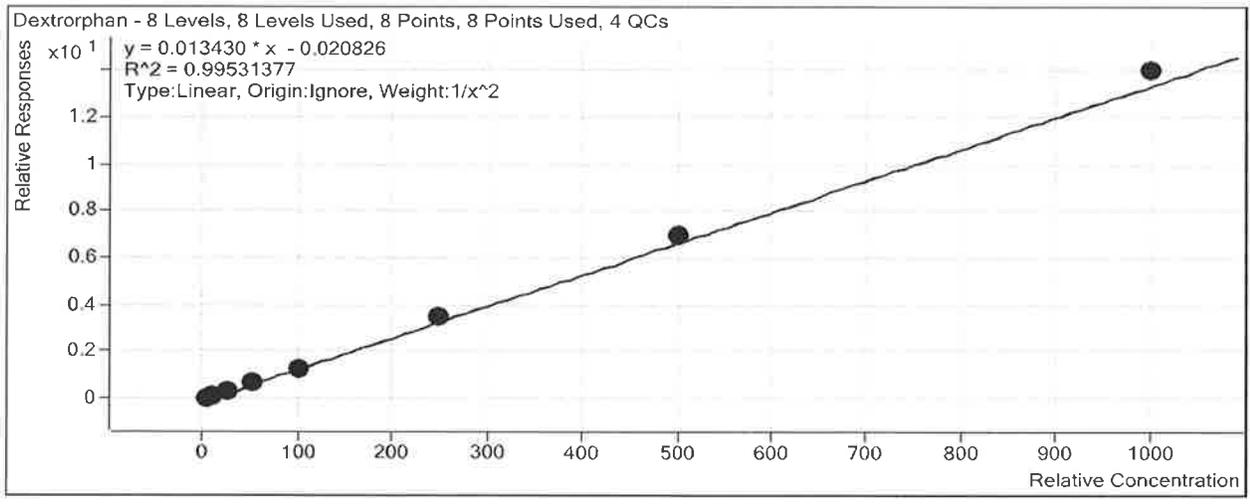
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng.d	1	☑	5	5.3	105.2
a cal 2-10ng.d	2	☑	10	9.4	94.0
a QC 10 (QC1).d	2	☑	10	9.4	94.4
a cal 3-25ng.d	3	☑	25	22.3	89.0
a cal 4-50ng.d	4	☑	50	49.4	98.8
a cal 5-100ng.d	5	☑	100	99.2	99.2
a QC 100 (QC2).d	5	☑	100	98.8	98.8
a cal 6-250ng.d	6	☑	250	262.4	104.9
a QC 250 (QC 3).d	6	☑	250	256.5	102.6
a cal 7-500ng.d	7	☑	500	523.3	104.7
a cal 8-1000ng.d	8	☑	1000	1041.6	104.2
a QC 1000 (QC 4).d	8	☑	1000	1046.2	104.6

**Batch Data Path**   C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1a.batch.bin

Last Calib Update   9/6/2018 9:56 AM   **Analyst Name**   ISP TOX

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

7-aminoclonazepam - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs

$y = 0.025393 * x - 0.027388$
$R^2 = 0.99679203$
Type:Linear, Origin:Ignore, Weight:1/x
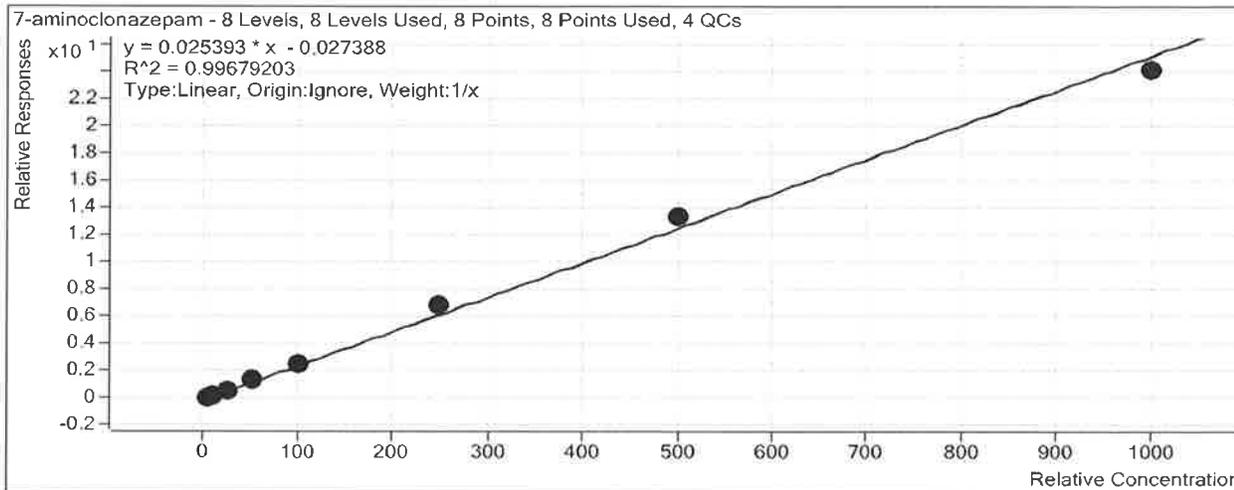
| Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng.d	1	☑	5	4.7	95.0
a cal 2-10ng.d	2	☑	10	9.3	93.3
a QC 10 (QC1).d	2	☑	10	9.7	96.7
a cal 3-25ng.d	3	☑	25	23.9	95.5
a cal 4-50ng.d	4	☑	50	53.3	106.6
a cal 5-100ng.d	5	☑	100	101.2	101.2
a QC 100 (QC2).d	5	☑	100	102.1	102.1
a cal 6-250ng.d	6	☑	250	270.2	108.1
a QC 250 (QC 3).d	6	☑	250	257.0	102.8
a cal 7-500ng.d	7	☑	500	526.0	105.2
a cal 8-1000ng.d	8	☑	1000	951.3	95.1
a QC 1000 (QC 4).d	8	☑	1000	961.4	96.1

TS

Batch Data Path   C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1a.batch.bin

Last Calib Update   9/6/2018 9:56 AM   **Analyst Name**   ISP TOX

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

Tramadol - 8 Levels, 6 Levels Used, 8 Points, 6 Points Used, 4 QCs

$y = 0.018770 * x - 0.006267$
$R^2 = 0.99816766$
Type:Linear, Origin:Ignore, Weight:$1/x^2$
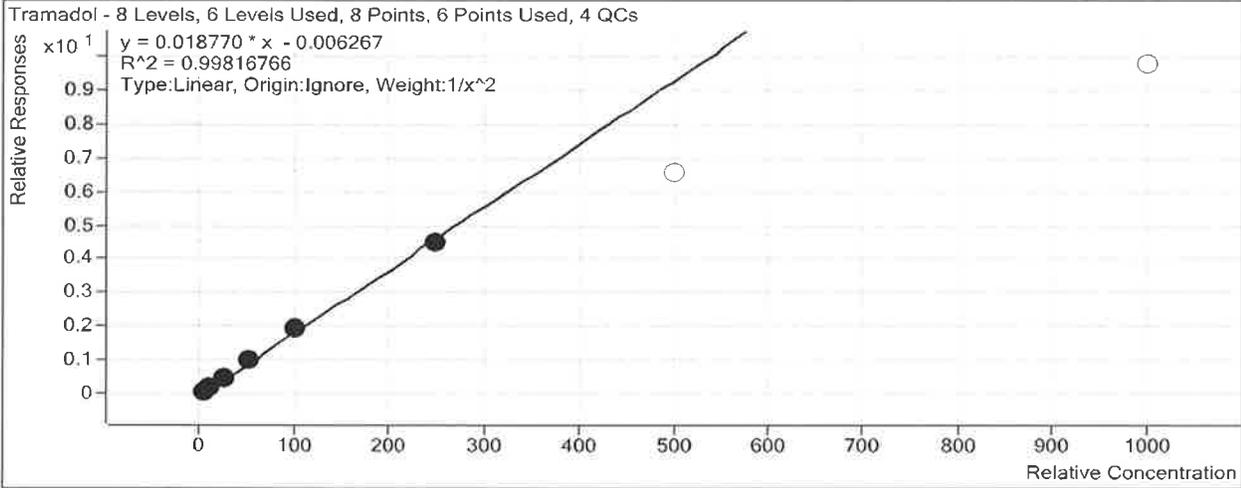
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng.d	1	☑	5	5.0	100.2
a cal 2-10ng.d	2	☑	10	10.0	99.6
a QC 10 (QC1).d	2	☐	10	10.1	101.2
a cal 3-25ng.d	3	☑	25	24.3	97.2
a cal 4-50ng.d	4	☑	50	52.7	105.3
a cal 5-100ng.d	5	☑	100	102.1	102.1
a QC 100 (QC2).d	5	☑	100	99.6	99.6
a cal 6-250ng.d	6	☑	250	238.8	95.5
a QC 250 (QC 3).d	6	☑	250	202.6	81.1
a cal 7-500ng.d	7	☐	500	351.5	70.3
a cal 8-1000ng.d	8	☐	1000	521.5	52.2
a QC 1000 (QC 4).d	8	☐	1000	459.7	46.0

Batch Data Path   C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1a.batch.bin

Last Calib Update   9/6/2018 9:56 AM   **Analyst Name**   ISP TOX

Target Compound   Metoprolol
Internal Standard   Tramadol-13C-D3

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

$y = 0.001767 * x - 0.001358$
$R^2 = 0.99730748$
Type:Linear, Origin:Ignore, Weight:$1/x^2$
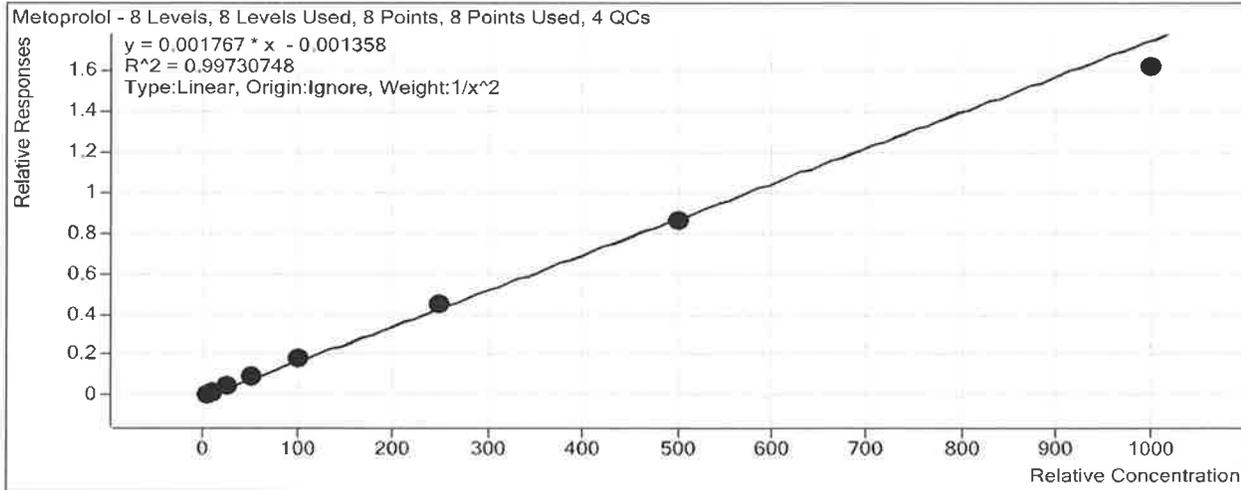
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng.d	1	☑	5	4.9	98.7
a cal 2-10ng.d	2	☑	10	10.2	101.7
a QC 10 (QC1).d	2	☑	10	9.3	92.7
a cal 3-25ng.d	3	☑	25	24.6	98.3
a cal 4-50ng.d	4	☑	50	53.7	107.3
a cal 5-100ng.d	5	☑	100	101.5	101.5
a QC 100 (QC2).d	5	☑	100	92.8	92.8
a cal 6-250ng.d	6	☑	250	257.1	102.8
a QC 250 (QC 3).d	6	☑	250	234.5	93.8
a cal 7-500ng.d	7	☑	500	489.0	97.8
a cal 8-1000ng.d	8	☑	1000	918.8	91.9
a QC 1000 (QC 4).d	8	☑	1000	879.0	87.9

ISP Forensics
Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1a.batch.bin

Last Calib Update 9/6/2018 9:56 AM **Analyst Name** ISP TOX

Target Compound *Doxylamine*
Internal Standard *Doxylamine-D5*

Doxylamine - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 4 QCs

$y = 0.017563 * x - 0.016981$
$R^2 = 0.99462107$
Type:Linear, Origin:Ignore, Weight:1/x^2
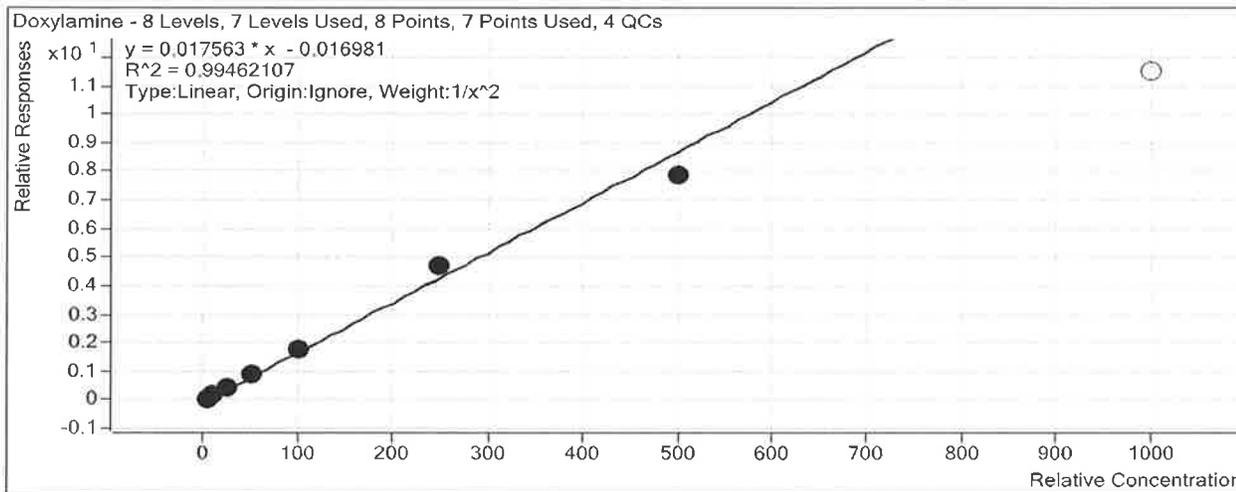
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng.d	1	☑	5	5.0	99.1
a cal 2-10ng.d	2	☑	10	10.3	102.9
a QC 10 (QC1).d	2	☑	10	9.5	94.5
a cal 3-25ng.d	3	☑	25	23.4	93.7
a cal 4-50ng.d	4	☑	50	52.8	105.6
a cal 5-100ng.d	5	☑	100	101.4	101.4
a QC 100 (QC2).d	5	☑	100	103.8	103.8
a cal 6-250ng.d	6	☑	250	268.0	107.2
a QC 250 (QC 3).d	6	☑	250	249.0	99.6
a cal 7-500ng.d	7	☑	500	450.5	90.1
a cal 8-1000ng.d	8	☐	1000	654.7	65.5
a QC 1000 (QC 4).d	8	☑	1000	624.6	62.5

TS

Batch Data Path   C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1a.batch.bin

Last Calib Update   9/6/2018 9:56 AM   **Analyst Name**   ISP TOX

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

Bupropion - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs
$y = 0.035790 * x - 0.074559$
$R^2 = 0.99919192$
Type:Linear, Origin:Ignore, Weight:1/x
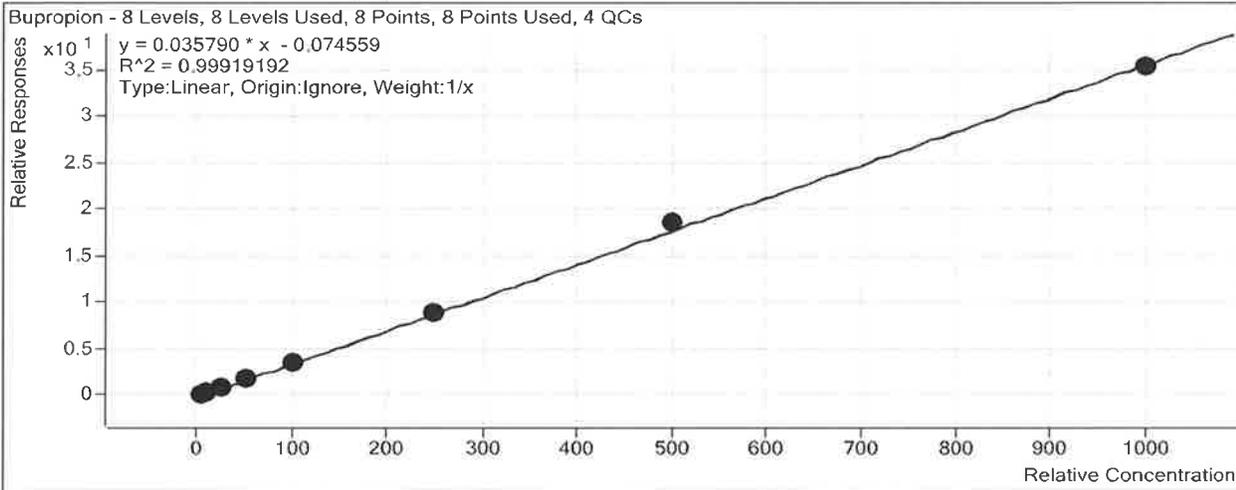
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng.d	1	☑	5	5.6	111.2
a cal 2-10ng.d	2	☑	10	10.0	100.4
a QC 10 (QC1).d	2	☑	10	9.3	92.8
a cal 3-25ng.d	3	☑	25	23.0	92.0
a cal 4-50ng.d	4	☑	50	48.0	95.9
a cal 5-100ng.d	5	☑	100	99.5	99.5
a QC 100 (QC2).d	5	☑	100	82.3	82.3
a cal 6-250ng.d	6	☑	250	245.0	98.0
a QC 250 (QC 3).d	6	☑	250	224.3	89.7
a cal 7-500ng.d	7	☑	500	521.0	104.2
a cal 8-1000ng.d	8	☑	1000	988.0	98.8
a QC 1000 (QC 4).d	8	☑	1000	907.4	90.7

TS

Batch Data Path   C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1a.batch.bin

Last Calib Update   9/6/2018 9:56 AM   **Analyst Name**   ISP TOX

Target Compound   *Zolpidem*
Internal Standard   *Zolpidem-D6*

Zolpidem - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 4 QCs
$y = 0.014939 * x + 0.011505$
$R^2 = 0.98800149$
Type:Linear, Origin:Ignore, Weight:1/x
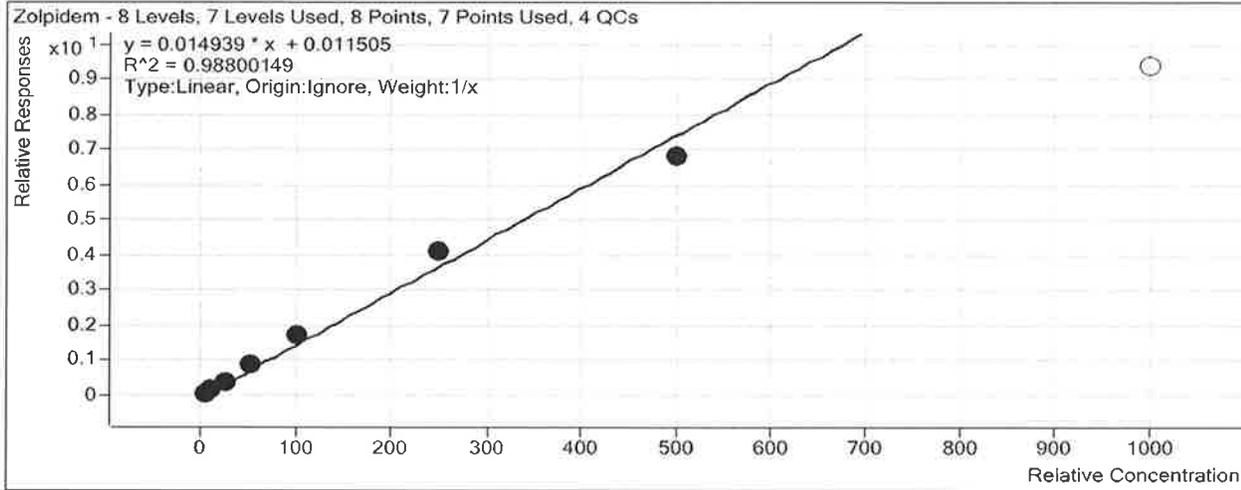
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng.d	1	☑	5	4.1	81.6
a cal 2-10ng.d	2	☑	10	8.9	88.6
a QC 10 (QC1).d	2	☑	10	9.0	90.4
a cal 3-25ng.d	3	☑	25	24.7	98.8
a cal 4-50ng.d	4	☑	50	58.0	116.1
a cal 5-100ng.d	5	☑	100	114.1	114.1
a QC 100 (QC2).d	5	☑	100	111.4	111.4
a cal 6-250ng.d	6	☑	250	274.3	109.7
a QC 250 (QC 3).d	6	☑	250	248.4	99.4
a cal 7-500ng.d	7	☑	500	455.9	91.2
a cal 8-1000ng.d	8	☐	1000	627.7	62.8
a QC 1000 (QC 4).d	8	☐	1000	614.0	61.4

Batch Data Path   C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1a.batch.bin

Last Calib Update   9/6/2018 9:56 AM   **Analyst Name**   ISP TOX

Target Compound   *Meprobamate*
Internal Standard   *Meprobamate-D7*

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

$y = 0.031326 * x - 0.058472$
$R^2 = 0.99730617$
Type:Linear, Origin:Ignore, Weight:1/x
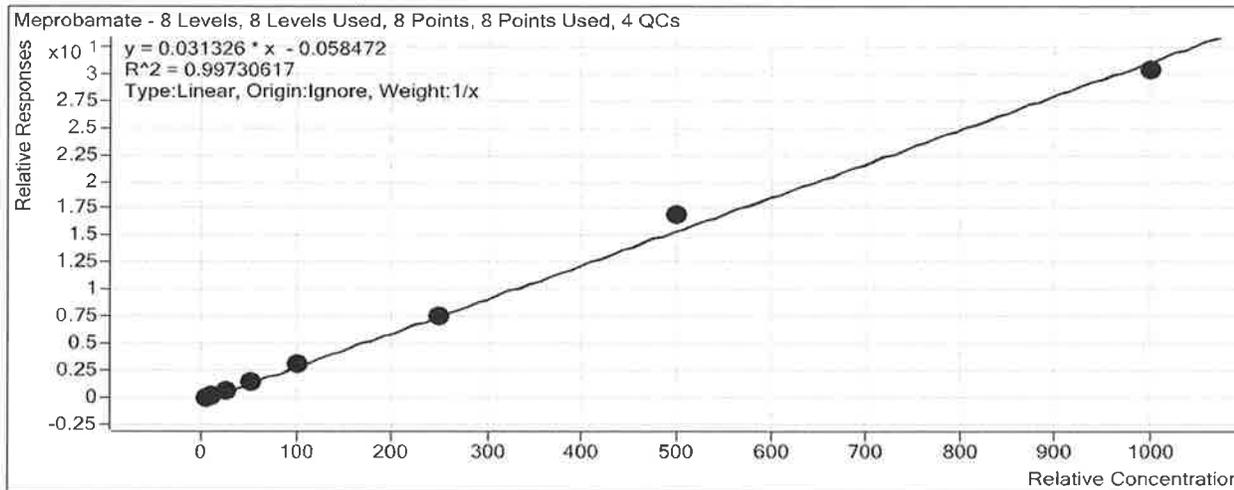
| Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng.d	1	☑	5	5.5	109.2
a cal 2-10ng.d	2	☑	10	9.2	92.1
a QC 10 (QC1).d	2	☑	10	10.7	107.0
a cal 3-25ng.d	3	☑	25	24.8	99.3
a cal 4-50ng.d	4	☑	50	48.6	97.2
a cal 5-100ng.d	5	☑	100	100.3	100.3
a QC 100 (QC2).d	5	☑	100	99.3	99.3
a cal 6-250ng.d	6	☑	250	242.1	96.8
a QC 250 (QC 3).d	6	☑	250	261.0	104.4
a cal 7-500ng.d	7	☑	500	541.2	108.2
a cal 8-1000ng.d	8	☑	1000	968.4	96.8
a QC 1000 (QC 4).d	8	☑	1000	1128.4	112.8

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1a.batch.bin

Last Calib Update 9/6/2018 9:56 AM **Analyst Name** ISP TOX

Target Compound *Trazodone*
Internal Standard *Trazodone-D6*

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

$y = 0.027979 * x - 0.018384$
$R^2 = 0.99316288$
Type:Linear, Origin:Ignore, Weight:$1/x^2$
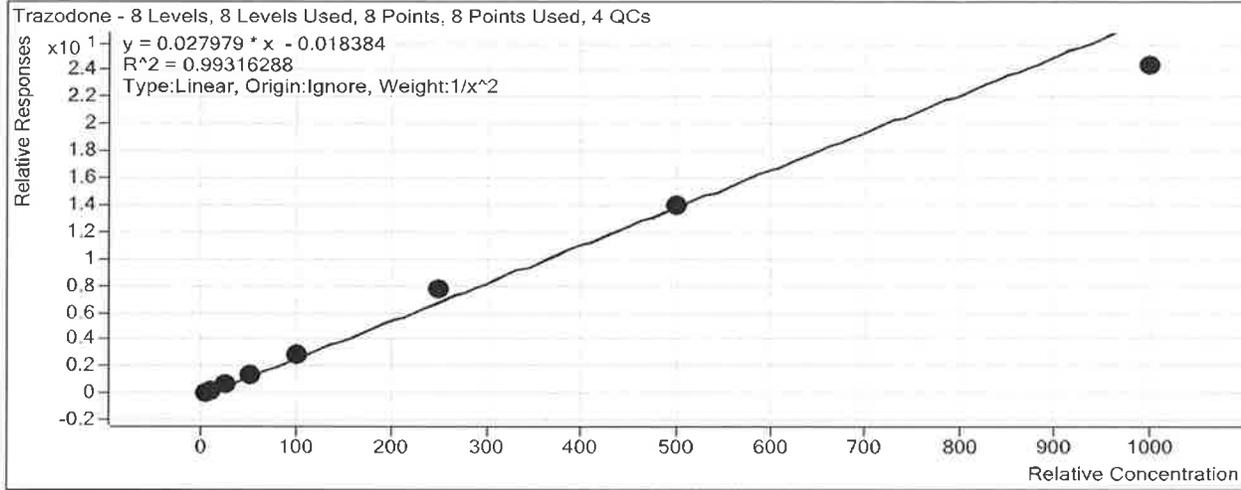
| Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng.d	1	☑	5	5.1	101.2
a cal 2-10ng.d	2	☑	10	9.9	98.6
a QC 10 (QC1).d	2	☑	10	10.0	99.9
a cal 3-25ng.d	3	☑	25	23.7	94.6
a cal 4-50ng.d	4	☑	50	50.5	101.1
a cal 5-100ng.d	5	☑	100	106.4	106.4
a QC 100 (QC2).d	5	☑	100	111.7	111.7
a cal 6-250ng.d	6	☑	250	277.5	111.0
a QC 250 (QC 3).d	6	☑	250	278.5	111.4
a cal 7-500ng.d	7	☑	500	500.4	100.1
a cal 8-1000ng.d	8	☑	1000	870.4	87.0
a QC 1000 (QC 4).d	8	☑	1000	951.7	95.2

TS

Batch Data Path   C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1a.batch.bin

Last Calib Update   9/6/2018 9:56 AM   **Analyst Name**   ISP TOX

Target Compound   *Venlafaxine*
Internal Standard   *Venlafaxine-D6*

Venlafaxine - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 4 QCs

$y = 0.023823 * x - 0.003504$
$R^2 = 0.98805405$
Type:Linear, Origin:Ignore, Weight:$1/x^2$
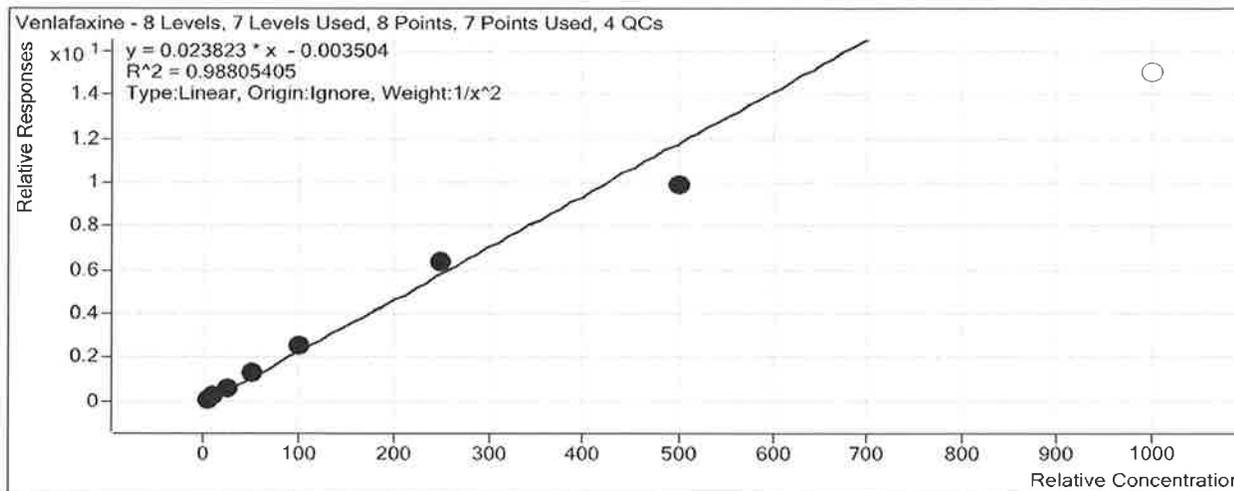
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng.d	1	☑	5	5.0	100.1
a cal 2-10ng.d	2	☑	10	10.0	100.1
a QC 10 (QC1).d	2	☑	10	9.9	98.6
a cal 3-25ng.d	3	☑	25	23.2	92.8
a cal 4-50ng.d	4	☑	50	54.9	109.8
a cal 5-100ng.d	5	☑	100	107.4	107.4
a QC 100 (QC2).d	5	☑	100	109.8	109.8
a cal 6-250ng.d	6	☑	250	266.1	106.4
a QC 250 (QC 3).d	6	☑	250	249.5	99.8
a cal 7-500ng.d	7	☑	500	417.0	83.4
a cal 8-1000ng.d	8	☐	1000	631.2	63.1
a QC 1000 (QC 4).d	8	☐	1000	552.9	55.3

TS P

Batch Data Path   C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1a.batch.bin

Last Calib Update   9/6/2018 9:56 AM   **Analyst Name**   ISP TOX

Target Compound   Citalopram
Internal Standard   Citalopram-D6

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

$y = 0.022737 * x - 0.030078$
$R^2 = 0.99683687$
Type:Linear, Origin:Ignore, Weight:$1/x^2$
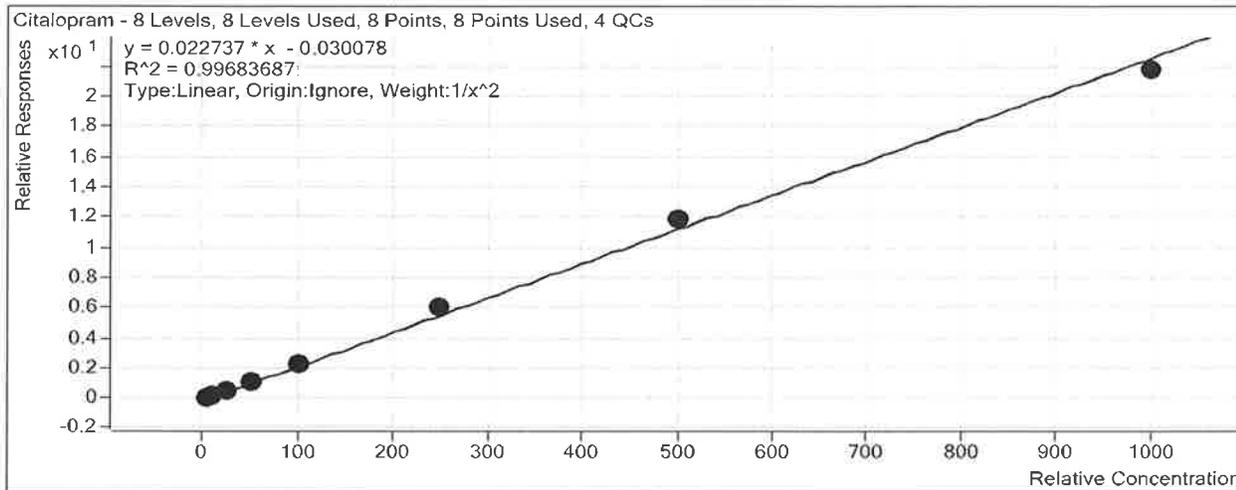
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng.d	1	☑	5	5.1	103.0
a cal 2-10ng.d	2	☑	10	9.7	96.6
a QC 10 (QC1).d	2	☑	10	9.8	98.0
a cal 3-25ng.d	3	☑	25	23.0	91.9
a cal 4-50ng.d	4	☑	50	50.9	101.7
a cal 5-100ng.d	5	☑	100	99.9	99.9
a QC 100 (QC2).d	5	☑	100	95.5	95.5
a cal 6-250ng.d	6	☑	250	264.1	105.6
a QC 250 (QC 3).d	6	☑	250	262.0	104.8
a cal 7-500ng.d	7	☑	500	527.2	105.4
a cal 8-1000ng.d	8	☑	1000	958.2	95.8
a QC 1000 (QC 4).d	8	☑	1000	1006.9	100.7

ISP Forensics
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TS

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Last Calib Update   9/6/2018 9:56 AM   **Analyst Name**   ISP TOX

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

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

$y = 0.027665 * x - 0.051013$
$R^2 = 0.99672965$
Type:Linear, Origin:Ignore, Weight:$1/x^2$
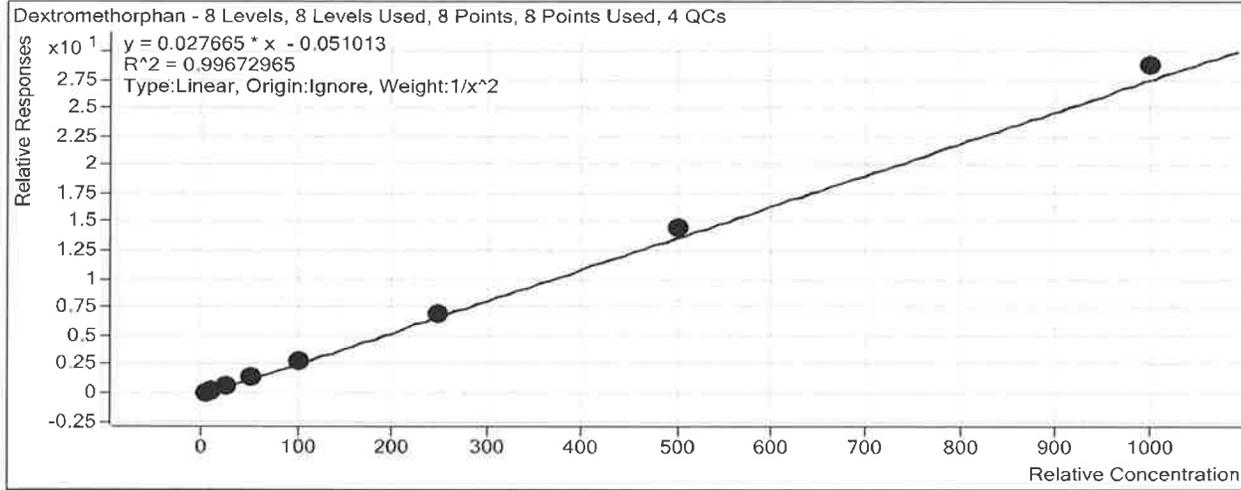
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng.d	1	☑	5	5.2	103.6
a cal 2-10ng.d	2	☑	10	9.7	96.7
a QC 10 (QC1).d	2	☑	10	9.8	98.4
a cal 3-25ng.d	3	☑	25	22.4	89.8
a cal 4-50ng.d	4	☑	50	49.8	99.5
a cal 5-100ng.d	5	☑	100	100.4	100.4
a QC 100 (QC2).d	5	☑	100	98.1	98.1
a cal 6-250ng.d	6	☑	250	251.6	100.6
a QC 250 (QC 3).d	6	☑	250	240.7	96.3
a cal 7-500ng.d	7	☑	500	526.6	105.3
a cal 8-1000ng.d	8	☑	1000	1039.8	104.0
a QC 1000 (QC 4).d	8	☑	1000	1159.3	115.9

Batch Data Path   C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1a.batch.bin

**Last Calib Update**   9/6/2018 9:56 AM   **Analyst Name**   ISP TOX

Target Compound   *Diphenhydramine*
Internal Standard   *Diphenhydramine-D3*

Diphenhydramine - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 4 QCs

$y = 0.019293 * x - 0.007608$
$R^2 = 0.99318241$
Type:Linear, Origin:Ignore, Weight:$1/x^2$
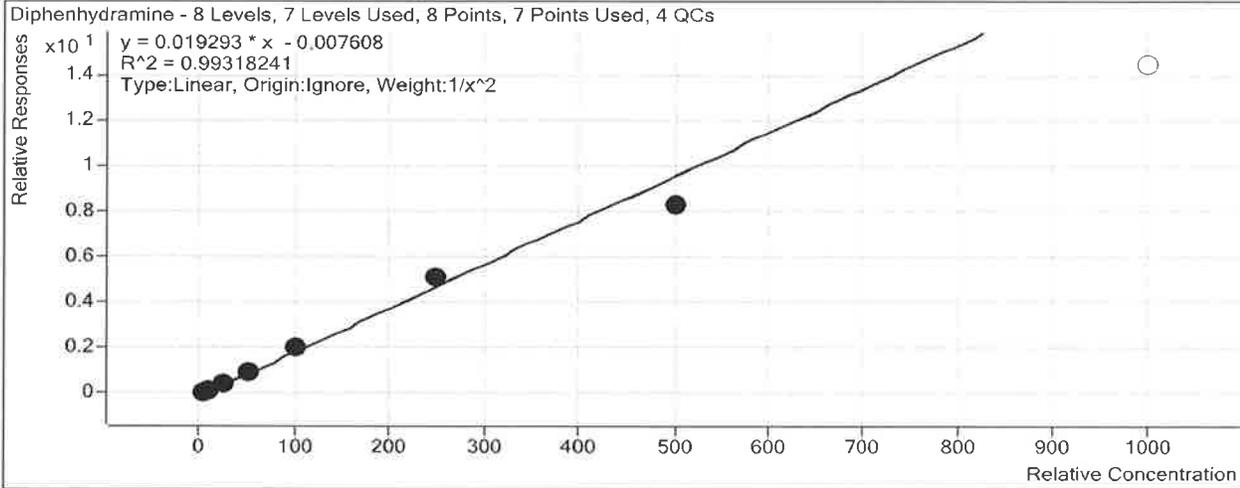
| Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng.d	1	☑	5	5.0	99.8
a cal 2-10ng.d	2	☑	10	10.0	100.0
a QC 10 (QC1).d	2	☑	10	9.7	97.3
a cal 3-25ng.d	3	☑	25	24.4	97.6
a cal 4-50ng.d	4	☑	50	51.6	103.2
a cal 5-100ng.d	5	☑	100	107.2	107.2
a QC 100 (QC2).d	5	☑	100	102.6	102.6
a cal 6-250ng.d	6	☑	250	264.9	106.0
a QC 250 (QC 3).d	6	☑	250	238.4	95.3
a cal 7-500ng.d	7	☑	500	430.9	86.2
a cal 8-1000ng.d	8	☐	1000	747.3	74.7
a QC 1000 (QC 4).d	8	☑	1000	853.1	85.3

Batch Data Path   C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1a.batch.bin

Last Calib Update   9/6/2018 9:56 AM   **Analyst Name**   ISP TOX

__Target Compound__   *Promethazine*
Internal Standard   *Promethazine-D3*

Promethazine - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 4 QCs

$y = 0.027672 * x - 0.027500$
$R^2 = 0.99706426$
Type:Linear, Origin:Ignore, Weight:$1/x^2$
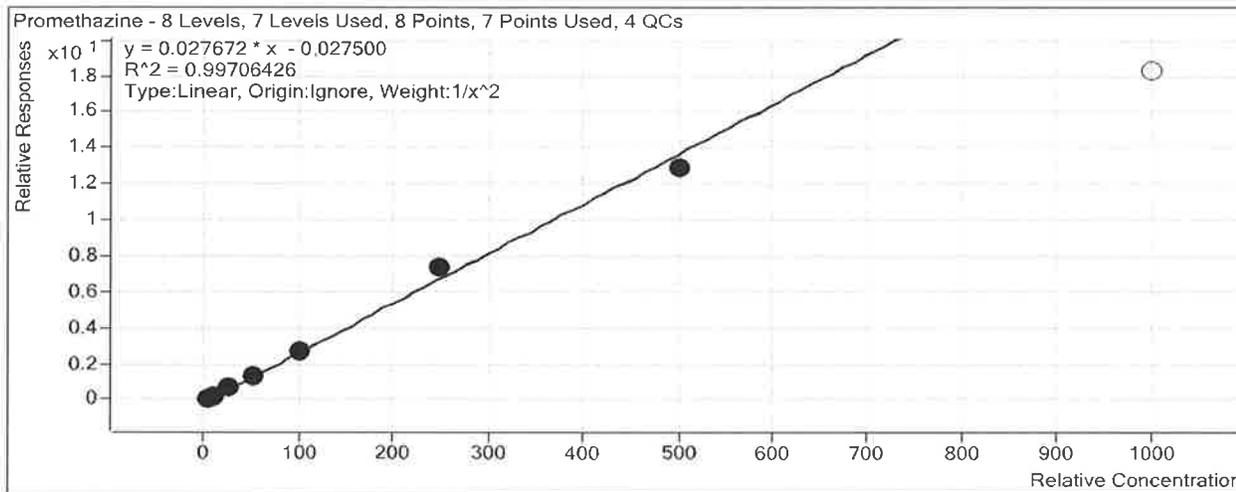
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng.d	1	☑	5	5.1	101.9
a cal 2-10ng.d	2	☑	10	9.6	95.9
a QC 10 (QC1).d	2	☑	10	9.9	99.1
a cal 3-25ng.d	3	☑	25	24.9	99.7
a cal 4-50ng.d	4	☑	50	50.6	101.2
a cal 5-100ng.d	5	☑	100	100.8	100.8
a QC 100 (QC2).d	5	☑	100	97.2	97.2
a cal 6-250ng.d	6	☑	250	268.7	107.5
a QC 250 (QC 3).d	6	☑	250	245.9	98.4
a cal 7-500ng.d	7	☑	500	465.3	93.1
a cal 8-1000ng.d	8	☐	1000	661.2	66.1
a QC 1000 (QC 4).d	8	☑	1000	1028.6	102.9

TS

Batch Data Path   C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1a.batch.bin

Last Calib Update   9/6/2018 9:56 AM   **Analyst Name**   ISP TOX

Target Compound   *Clonazepam*
Internal Standard   *Clonazepam-D4*

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

y = 0.133207 * x - 0.208226
R^2 = 0.98972695
Type:Linear, Origin:Ignore, Weight:1/x^2
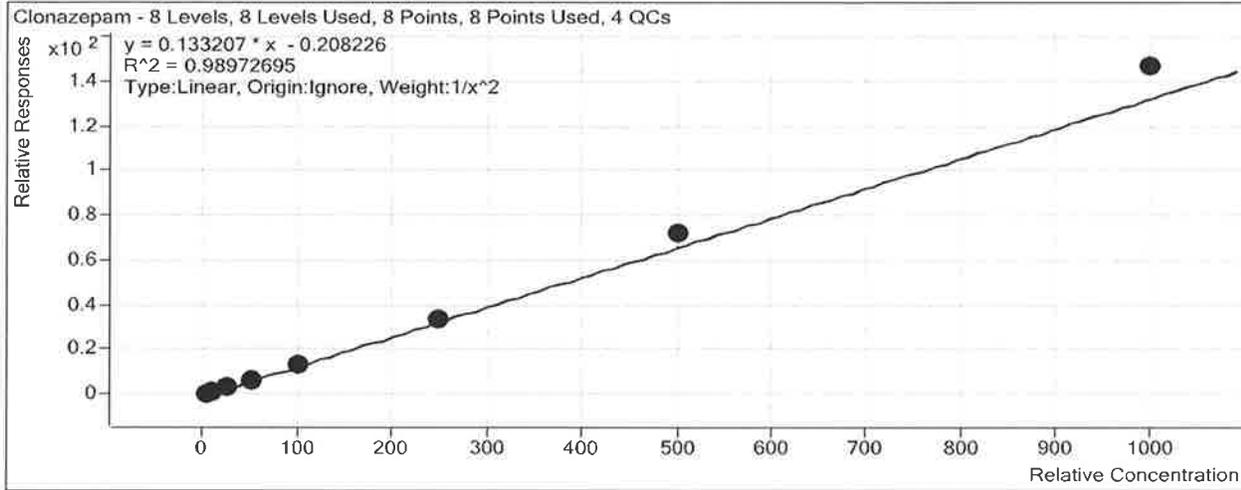
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng.d	1	☑	5	5.4	108.0
a cal 2-10ng.d	2	☑	10	8.9	88.6
a QC 10 (QC1).d	2	☑	10	8.5	85.1
a cal 3-25ng.d	3	☑	25	23.1	92.5
a cal 4-50ng.d	4	☑	50	44.7	89.4
a cal 5-100ng.d	5	☑	100	103.1	103.1
a QC 100 (QC2).d	5	☑	100	93.0	93.0
a cal 6-250ng.d	6	☑	250	250.1	100.0
a QC 250 (QC 3).d	6	☑	250	253.2	101.3
a cal 7-500ng.d	7	☑	500	540.8	108.2
a cal 8-1000ng.d	8	☑	1000	1102.7	110.3
a QC 1000 (QC 4).d	8	☑	1000	892.7	89.3

TS

**Batch Data Path**   C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1a.batch.bin

Last Calib Update   9/6/2018 9:56 AM   **Analyst Name**   ISP TOX

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

a-hydroxyalprazolam - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs

$y = 0.025067 * x - 0.053026$
$R^2 = 0.99064468$
Type:Linear, Origin:Ignore, Weight:$1/x^2$
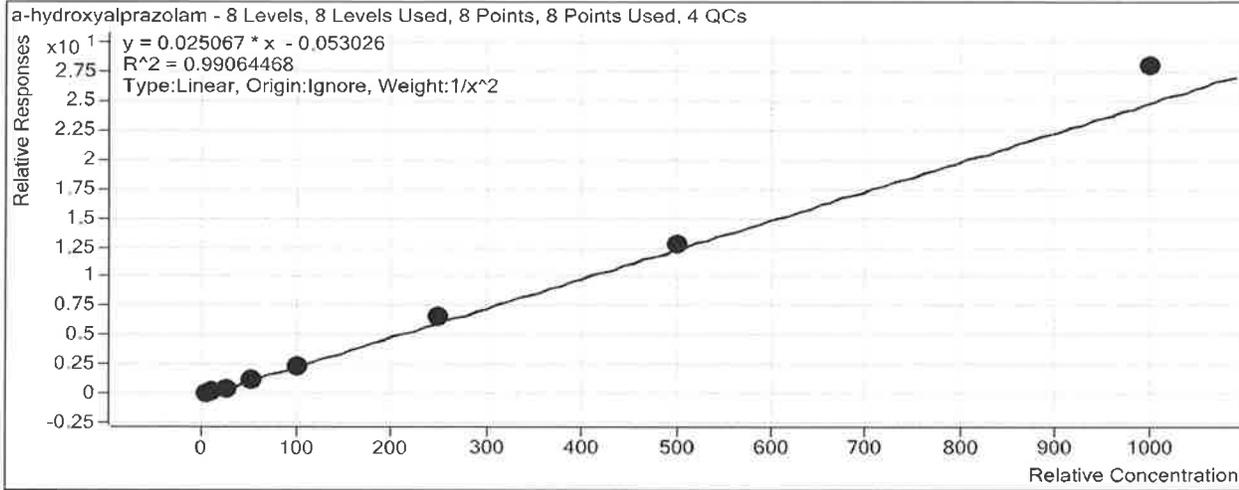
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng.d	1	☑	5	5.3	105.2
a cal 2-10ng.d	2	☑	10	9.6	96.2
a QC 10 (QC1).d	2	☑	10	9.2	91.6
a cal 3-25ng.d	3	☑	25	21.3	85.4
a cal 4-50ng.d	4	☑	50	48.7	97.3
a cal 5-100ng.d	5	☑	100	94.5	94.5
a QC 100 (QC2).d	5	☑	100	103.5	103.5
a cal 6-250ng.d	6	☑	250	268.7	107.5
a QC 250 (QC 3).d	6	☑	250	252.0	100.8
a cal 7-500ng.d	7	☑	500	510.3	102.1
a cal 8-1000ng.d	8	☑	1000	1120.2	112.0
a QC 1000 (QC 4).d	8	☑	1000	1071.2	107.1

Batch Data Path   C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1a.batch.bin

**Last Calib Update**   9/6/2018 9:56 AM   **Analyst Name**   ISP TOX

Target Compound   *Carisoprodol*
Internal Standard   *Carisoprodol-D7*
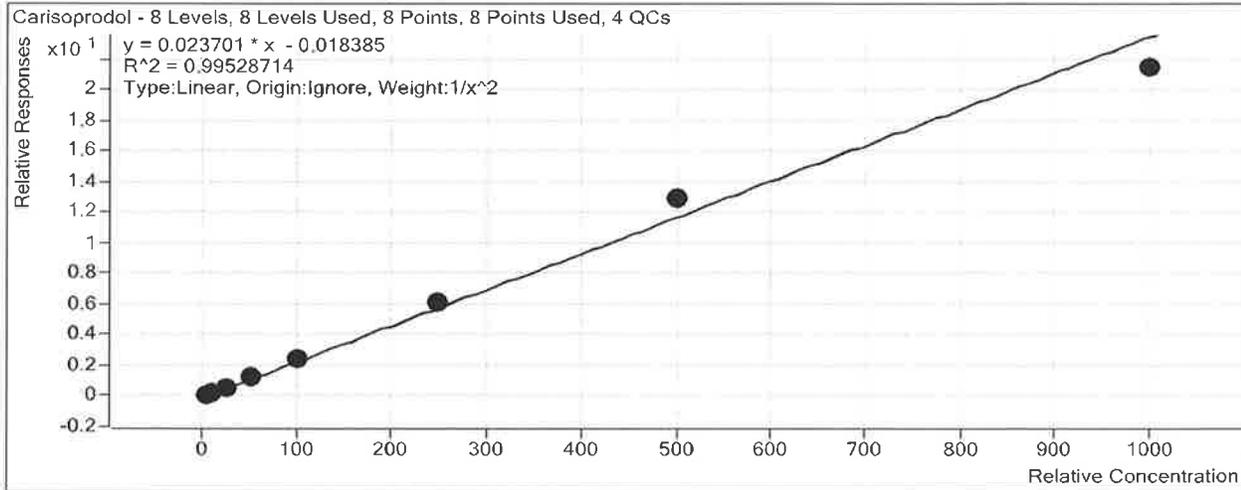
Carisoprodol - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs

$y = 0.023701 * x - 0.018385$
$R^2 = 0.99528714$
Type:Linear, Origin:Ignore, Weight:$1/x^2$

| Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng.d	1	☑	5	5.1	101.2
a cal 2-10ng.d	2	☑	10	10.0	99.9
a QC 10 (QC1).d	2	☑	10	10.1	101.3
a cal 3-25ng.d	3	☑	25	23.1	92.6
a cal 4-50ng.d	4	☑	50	51.0	102.1
a cal 5-100ng.d	5	☑	100	100.2	100.2
a QC 100 (QC2).d	5	☑	100	102.5	102.5
a cal 6-250ng.d	6	☑	250	259.9	104.0
a QC 250 (QC 3).d	6	☑	250	279.7	111.9
a cal 7-500ng.d	7	☑	500	546.7	109.3
a cal 8-1000ng.d	8	☑	1000	907.3	90.7
a QC 1000 (QC 4).d	8	☑	1000	999.2	99.9

TS

Batch Data Path   C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1a.batch.bin

Last Calib Update   9/6/2018 9:56 AM   **Analyst Name**   ISP TOX

Target Compound   *Lorazepam*
Internal Standard   *Clonazepam-D4*

Lorazepam - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 4 QCs

y = 0.058105 * x - 0.406872
R^2 = 0.98777155
Type:Linear, Origin:Ignore, Weight:1/x
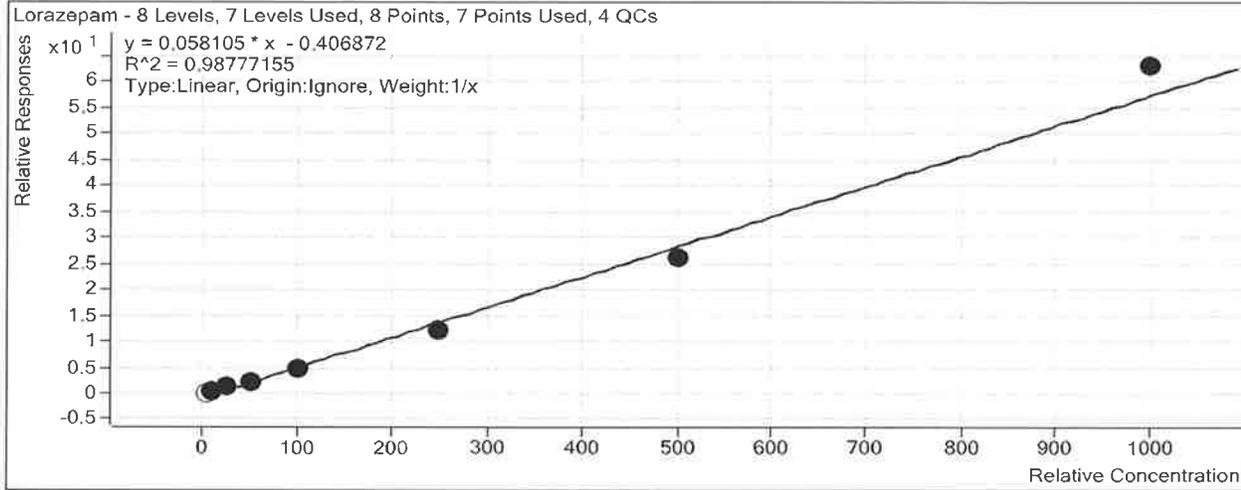
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng.d	1	☐	5	10.0	199.9
a cal 2-10ng.d	2	☑	10	12.8	127.7
a QC 10 (QC1).d	2	☑	10	12.8	128.4
a cal 3-25ng.d	3	☑	25	27.9	111.7
a cal 4-50ng.d	4	☑	50	44.2	88.4
a cal 5-100ng.d	5	☑	100	85.6	85.6
a QC 100 (QC2).d	5	☐	100	72.0	72.0
a cal 6-250ng.d	6	☑	250	213.8	85.5
a QC 250 (QC 3).d	6	☐	250	229.2	91.7
a cal 7-500ng.d	7	☑	500	460.0	92.0
a cal 8-1000ng.d	8	☑	1000	1090.7	109.1
a QC 1000 (QC 4).d	8	☑	1000	903.7	90.4

**Batch Data Path**   C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1a.batch.bin

Last Calib Update   9/6/2018 9:56 AM   **Analyst Name**   ISP TOX

Target Compound   *Alprazolam*
Internal Standard   *Alprazolam-D5*

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

$y = 0.030416 * x + 0.001564$
$R^2 = 0.99468344$
Type:Linear, Origin:Ignore, Weight:1/x
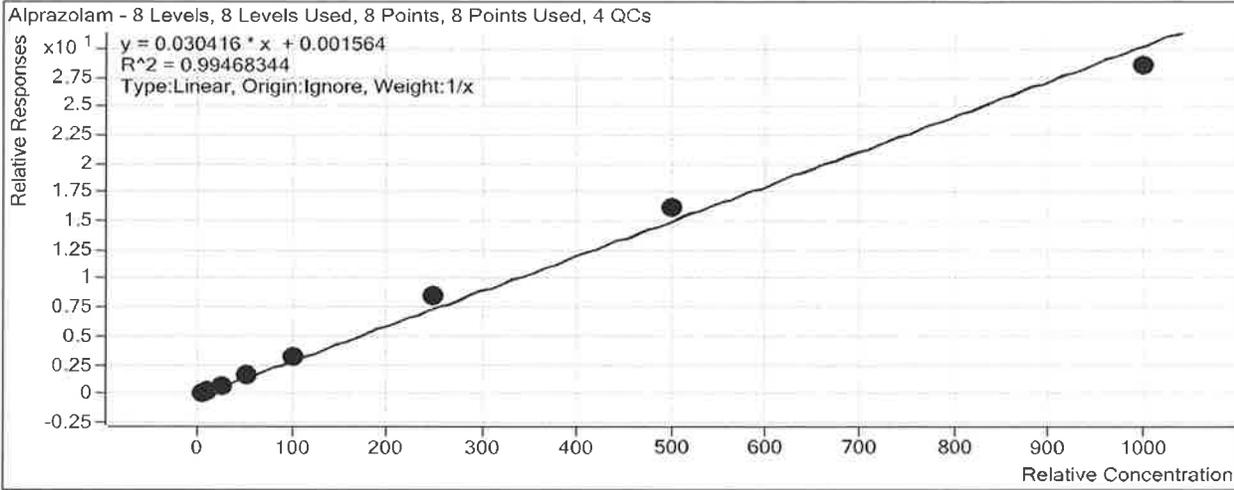
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng.d	1	☑	5	4.5	90.8
a cal 2-10ng.d	2	☑	10	9.4	93.8
a QC 10 (QC1).d	2	☑	10	9.5	95.0
a cal 3-25ng.d	3	☑	25	23.5	94.0
a cal 4-50ng.d	4	☑	50	53.7	107.4
a cal 5-100ng.d	5	☑	100	102.9	102.9
a QC 100 (QC2).d	5	☑	100	110.6	110.6
a cal 6-250ng.d	6	☑	250	278.6	111.4
a QC 250 (QC 3).d	6	☑	250	274.5	109.8
a cal 7-500ng.d	7	☑	500	529.8	106.0
a cal 8-1000ng.d	8	☑	1000	937.6	93.8
a QC 1000 (QC 4).d	8	☑	1000	878.4	87.8

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

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1a.batch.bin		
Analysis Time	9/6/2018 9:57 AM	**Analyst Name**	ISPUser
Report Time	9/6/2018 2:40 PM	**Reporter Name**	ISPUser
Last Calib Update	9/6/2018 9:56 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-09-05 13:25	**Data File**	a cal 1-5ng.d
Sample Type	Calibration	**Sample Name**	a cal 1-5ng.d
Dilution	1	**Acq Method**	MD Quant Panel 1a 7-11-18.m
Position	P1-H12	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28

Sample Chromatogram
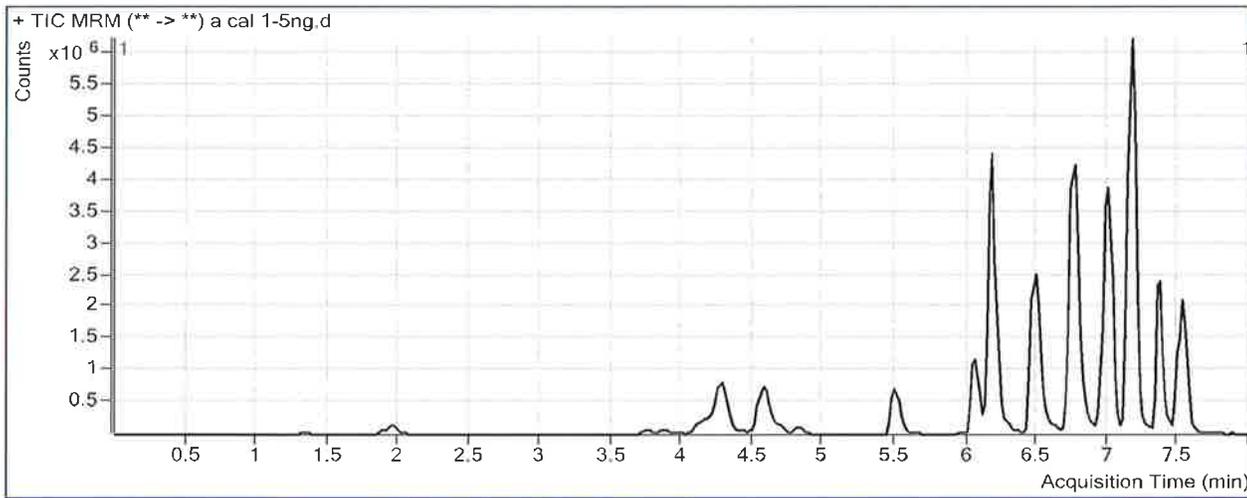
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.368	24403	108661	0.2246	5.2606
Hydromorphone	Hydromorphone-D6	1.969	94251	875180	0.1077	5.3583
Codeine	Codeine-D6	3.952	41035	395486	0.1038	5.5113
Amphetamine	Amphetamine-D11	4.303	1137923	1498212	0.7595	4.3143
Oxycodone	Oxycodone-D6	4.310	350778	3432615	0.1022	5.1892
Hydrocodone	Hydrocodone-D6	4.615	124362	1832870	0.0679	6.0676
Norhydrocodone	Norhydrocodone-D3	4.638	6597	482274	0.0137	6.6966
Methamphetamine	Methamphetamine-D11	4.682	400007	2237337	0.1788	5.1031
6-MAM	6-MAM-D6	4.829	3677	387464	0.0095	0.5298
Phentermine	Phentermine-D5	5.546	133827	3166385	0.0423	5.9654
Dextrorphan	Dextrorphan-D3	6.043	200699	4030099	0.0498	5.2587
7-aminoclonazepam	7-Aminoclonazepam-D4	6.154	185679	1991784	0.0932	4.7498
Tramadol	Tramadol-13C-D3	6.180	1335033	15208146	0.0878	5.0106
Metoprolol	Tramadol-13C-D3	6.302	111980	15208146	0.0074	4.9340
Doxylamine	Doxylamine-D5	6.502	735410	10493008	0.0701	4.9573
Bupropion	Bupropion-D9	6.751	452050	3632344	0.1245	5.5605
Zolpidem	Zolpidem-D6	6.779	943347	13023197	0.0724	4.0786
Meprobamate	Meprobamate-D7	6.853	83074	737882	0.1126	5.4604
Trazodone	Trazodone-D6	6.996	502906	4083624	0.1232	5.0586
Venlafaxine	Venlafaxine-D6	7.006	1147033	9915482	0.1157	5.0030

TS P

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Citalopram	Citalopram-D6	7.139	497770	5721411	0.0870	5.1494
Dextromethorphan	Dextromethorphan-D3	7.171	182575	1977765	0.0923	5.1808
Diphenhydramine	Diphenhydramine-D3	7.174	1165556	13145911	0.0887	4.9898
Promethazine	Promethazine-D3	7.369	796763	7023570	0.1134	5.0933
Clonazepam	Clonazepam-D4	7.405	95899	187623	0.5111	5.4003
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.481	24181	306970	0.0788	5.2579
Carisoprodol	Carisoprodol-D7	7.494	270580	2664441	0.1016	5.0604
Lorazepam	Clonazepam-D4	7.523	32609	187623	0.1738	9.9936
Alprazolam	Alprazolam-D5	7.548	651426	4666242	0.1396	4.5383

TS P

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1a.batch.bin
Analysis Time	9/6/2018 9:57 AM	**Analyst Name** ISPUser
Report Time	9/6/2018 2:40 PM	**Reporter Name** ISPUser
Last Calib Update	9/6/2018 9:56 AM	**Batch State** Processed

Analysis Info

Acq Time	2018-09-05 13:57	**Data File**	a cal 2-10ng.d
Sample Type	Calibration	**Sample Name**	a cal 2-10ng.d
Dilution	1	**Acq Method**	MD Quant Panel 1a 7-11-18.m
Position	P1-G12	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28

Sample Chromatogram

+ TIC MRM (** -> **) a cal 2-10ng.d
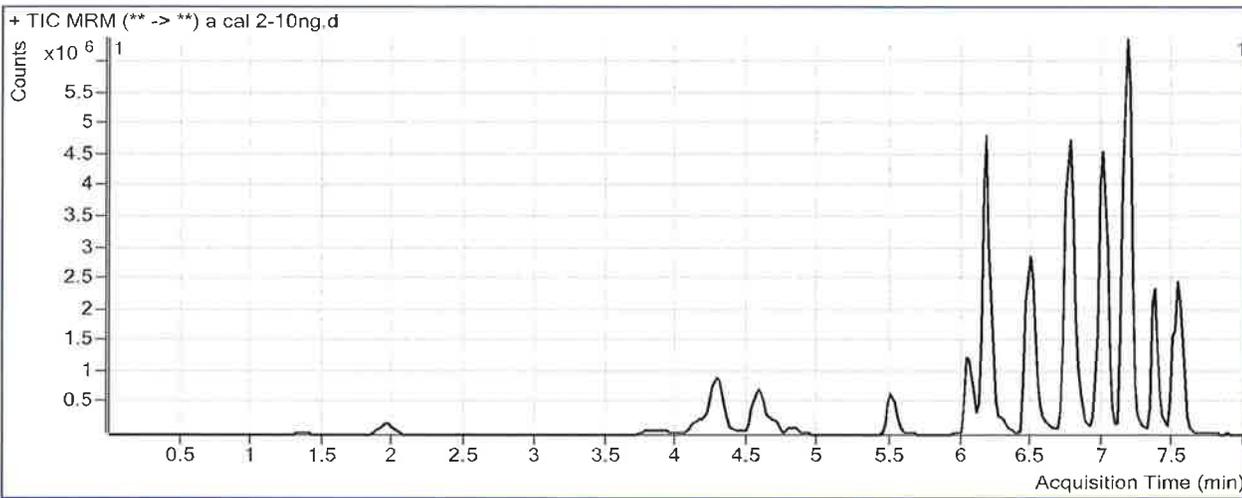
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.368	51376	102651	0.5005	9.9456
Hydromorphone	Hydromorphone-D6	1.969	198794	875087	0.2272	9.3068
Codeine	Codeine-D6	3.892	83268	401823	0.2072	10.0382
Amphetamine	Amphetamine-D11	4.303	1596631	1393292	1.1459	9.5385
Oxycodone	Oxycodone-D6	4.310	735537	3393488	0.2167	9.4762
Hydrocodone	Hydrocodone-D6	4.594	249250	1854130	0.1344	9.6330
Norhydrocodone	Norhydrocodone-D3	4.658	14178	499466	0.0284	10.3973
Methamphetamine	Methamphetamine-D11	4.682	702604	1736561	0.4046	10.0872
6-MAM	6-MAM-D6	4.849	7425	373530	0.0199	0.9368
Phentermine	Phentermine-D5	5.546	251683	2708757	0.0929	10.1097
Dextrorphan	Dextrorphan-D3	6.043	403581	3827130	0.1055	9.4026
7-aminoclonazepam	7-Aminoclonazepam-D4	6.154	403100	1923871	0.2095	9.3300
Tramadol	Tramadol-13C-D3	6.180	2729875	15111357	0.1807	9.9581
Metoprolol	Tramadol-13C-D3	6.302	251193	15111357	0.0166	10.1729
Doxylamine	Doxylamine-D5	6.502	1672775	10217171	0.1637	10.2887
Bupropion	Bupropion-D9	6.751	875794	3075383	0.2848	10.0401
Zolpidem	Zolpidem-D6	6.779	1978084	13751940	0.1438	8.8584
Meprobamate	Meprobamate-D7	6.853	172669	750116	0.2302	9.2147
Trazodone	Trazodone-D6	6.996	1011469	3926197	0.2576	9.8646
Venlafaxine	Venlafaxine-D6	7.006	2269067	9654179	0.2350	10.0131

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Citalopram	Citalopram-D6	7.139	990248	5221626	0.1896	9.6638
Dextromethorphan	Dextromethorphan-D3	7.171	422248	1949341	0.2166	9.6737
Diphenhydramine	Diphenhydramine-D3	7.194	2282558	12311629	0.1854	10.0037
Promethazine	Promethazine-D3	7.369	1391950	5851361	0.2379	9.5904
Clonazepam	Clonazepam-D4	7.405	173018	178124	0.9713	8.8551
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.481	62415	331907	0.1881	9.6173
Carisoprodol	Carisoprodol-D7	7.494	612383	2805428	0.2183	9.9857
Lorazepam	Clonazepam-D4	7.523	59679	178124	0.3350	12.7686
Alprazolam	Alprazolam-D5	7.548	1311724	4570512	0.2870	9.3842

TS

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1a.batch.bin		
Analysis Time	9/6/2018 9:57 AM	**Analyst Name**	ISPUser
Report Time	9/6/2018 2:40 PM	**Reporter Name**	ISPUser
Last Calib Update	9/6/2018 9:56 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-09-05 14:28	**Data File**	a cal 3-25ng.d
Sample Type	Calibration	**Sample Name**	a cal 3-25ng.d
Dilution	1	**Acq Method**	MD Quant Panel 1a 7-11-18.m
Position	P1-F12	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28

Sample Chromatogram

+ TIC MRM (** -> **) a cal 3-25ng.d
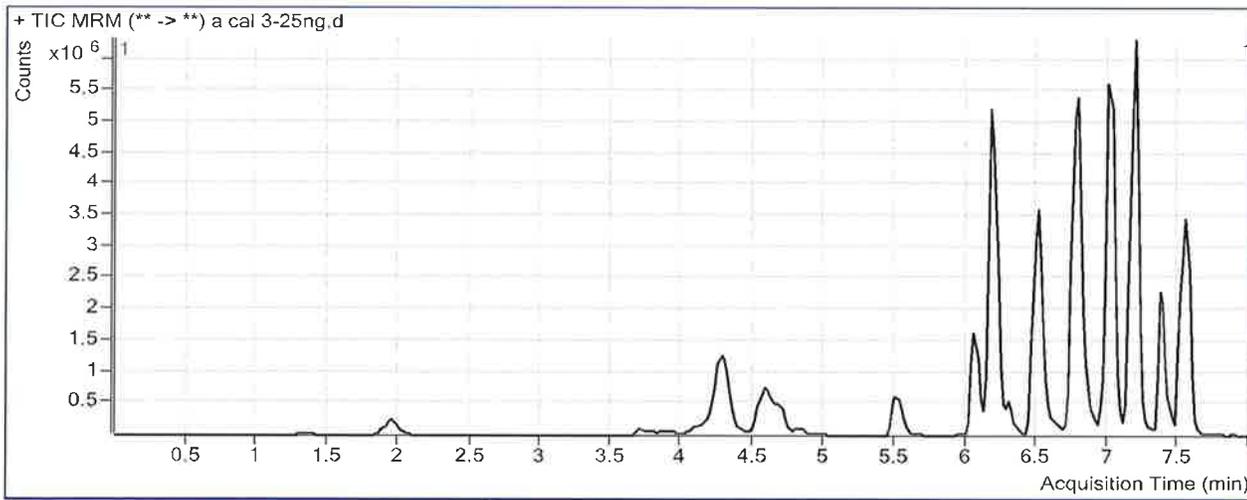
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.368	114198	104397	1.0939	20.0217
Hydromorphone	Hydromorphone-D6	1.969	473086	808898	0.5849	21.1274
Codeine	Codeine-D6	3.932	73110	225134	0.3247	15.1797
Amphetamine	Amphetamine-D11	4.283	2872318	1229589	2.3360	25.6275
Oxycodone	Oxycodone-D6	4.290	1798048	3187233	0.5641	22.4761
Hydrocodone	Hydrocodone-D6	4.594	626032	1735216	0.3608	21.7547
Norhydrocodone	Norhydrocodone-D3	4.638	33471	441024	0.0759	22.3523
Methamphetamine	Methamphetamine-D11	4.682	1745969	1870228	0.9336	21.7626
6-MAM	6-MAM-D6	4.829	18383	350789	0.0524	2.2112
Phentermine	Phentermine-D5	5.546	603509	2608968	0.2313	21.4346
Dextrorphan	Dextrorphan-D3	6.063	971954	3494898	0.2781	22.2582
7-aminoclonazepam	7-Aminoclonazepam-D4	6.174	1042396	1800800	0.5789	23.8746
Tramadol	Tramadol-13C-D3	6.203	6162812	13693249	0.4501	24.3110
Metoprolol	Tramadol-13C-D3	6.302	576042	13693249	0.0421	24.5690
Doxylamine	Doxylamine-D5	6.502	3685182	9344801	0.3944	23.4203
Bupropion	Bupropion-D9	6.771	1846072	2465685	0.7487	23.0028
Zolpidem	Zolpidem-D6	6.779	4830410	12697730	0.3804	24.6945
Meprobamate	Meprobamate-D7	6.873	485854	675525	0.7192	24.8256
Trazodone	Trazodone-D6	6.996	1930984	3001273	0.6434	23.6523
Venlafaxine	Venlafaxine-D6	7.026	4857193	8841821	0.5493	23.2067

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Citalopram	Citalopram-D6	7.159	1824518	3705690	0.4924	22.9776
Dextromethorphan	Dextromethorphan-D3	7.171	739095	1296725	0.5700	22.4465
Diphenhydramine	Diphenhydramine-D3	7.194	4398733	9494573	0.4633	24.4072
Promethazine	Promethazine-D3	7.369	2718574	4104585	0.6623	24.9287
Clonazepam	Clonazepam-D4	7.425	464280	161715	2.8710	23.1160
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.481	194476	403554	0.4819	21.3402
Carisoprodol	Carisoprodol-D7	7.514	1511380	2850467	0.5302	23.1471
Lorazepam	Clonazepam-D4	7.543	196552	161715	1.2154	27.9203
Alprazolam	Alprazolam-D5	7.548	3136876	4380350	0.7161	23.4926

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

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1a.batch.bin		
Analysis Time	9/6/2018 9:57 AM	**Analyst Name**	ISPUser
Report Time	9/6/2018 2:40 PM	**Reporter Name**	ISPUser
Last Calib Update	9/6/2018 9:56 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-09-05 15:00	**Data File**	a cal 4-50ng.d
Sample Type	Calibration	**Sample Name**	a cal 4-50ng.d
Dilution	1	**Acq Method**	MD Quant Panel 1a 7-11-18.m
Position	P1-E12	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28

Sample Chromatogram

+ TIC MRM (** -> **) a cal 4-50ng.d
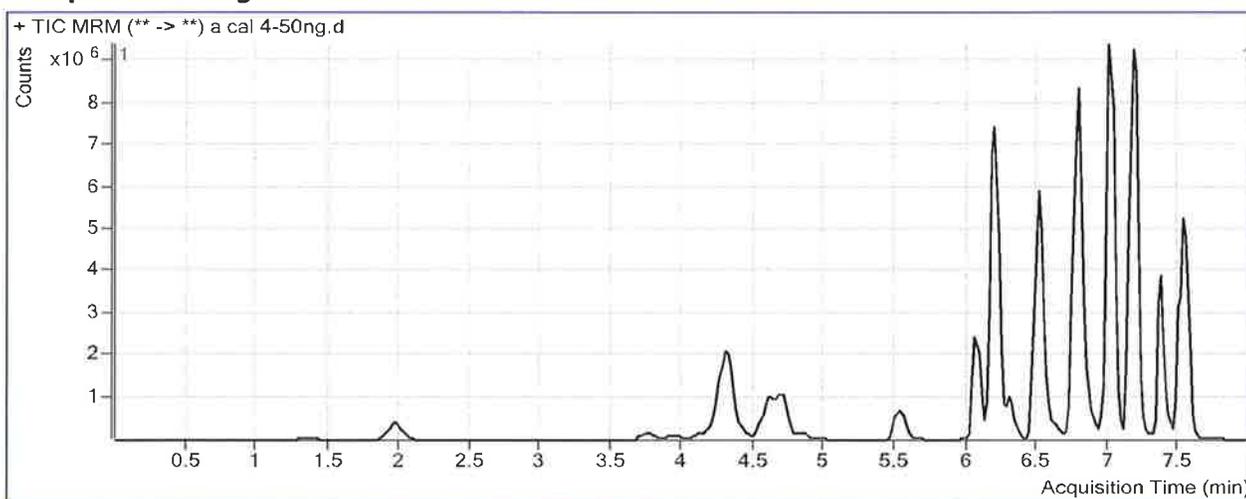
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.368	266550	101529	2.6254	46.0269
Hydromorphone	Hydromorphone-D6	1.969	1090997	795398	1.3716	47.1288
Codeine	Codeine-D6	3.972	175005	242501	0.7217	32.5457
Amphetamine	Amphetamine-D11	4.303	5846917	1242438	4.7060	57.6688
Oxycodone	Oxycodone-D6	4.310	4143882	3134482	1.3220	50.8375
Hydrocodone	Hydrocodone-D6	4.615	1467724	1691331	0.8678	48.9065
Norhydrocodone	Norhydrocodone-D3	4.678	64104	414642	0.1546	42.1579
Methamphetamine	Methamphetamine-D11	4.702	4071890	1856603	2.1932	49.5654
6-MAM	6-MAM-D6	4.849	42554	354668	0.1200	4.8588
Phentermine	Phentermine-D5	5.566	1484371	2590831	0.5729	49.3864
Dextrorphan	Dextrorphan-D3	6.063	2208628	3437536	0.6425	49.3908
7-aminoclonazepam	7-Aminoclonazepam-D4	6.174	2350053	1772536	1.3258	53.2910
Tramadol	Tramadol-13C-D3	6.203	13711645	13958973	0.9823	52.6651
Metoprolol	Tramadol-13C-D3	6.302	1305092	13958973	0.0935	53.6653
Doxylamine	Doxylamine-D5	6.502	8522470	9362799	0.9102	52.7937
Bupropion	Bupropion-D9	6.771	3602494	2194053	1.6419	47.9604
Zolpidem	Zolpidem-D6	6.779	10910605	12419474	0.8785	58.0363
Meprobamate	Meprobamate-D7	6.873	966878	660611	1.4636	48.5879
Trazodone	Trazodone-D6	6.996	4225181	3027432	1.3956	50.5382
Venlafaxine	Venlafaxine-D6	7.006	11237900	8616894	1.3042	54.8920

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Citalopram	Citalopram-D6	7.139	4378910	3887731	1.1263	50.8615
Dextromethorphan	Dextromethorphan-D3	7.171	1698861	1281380	1.3258	49.7675
Diphenhydramine	Diphenhydramine-D3	7.194	9313212	9430333	0.9876	51.5818
Promethazine	Promethazine-D3	7.369	6349945	4625363	1.3729	50.6055
Clonazepam	Clonazepam-D4	7.405	926424	161315	5.7430	44.6763
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.481	336205	288208	1.1665	48.6524
Carisoprodol	Carisoprodol-D7	7.514	2864404	2404754	1.1911	51.0329
Lorazepam	Clonazepam-D4	7.523	348816	161315	2.1623	44.2168
Alprazolam	Alprazolam-D5	7.548	6750565	4128748	1.6350	53.7029

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1a.batch.bin		
Analysis Time	9/6/2018 9:57 AM	**Analyst Name**	ISPUser
Report Time	9/6/2018 2:41 PM	**Reporter Name**	ISPUser
Last Calib Update	9/6/2018 9:56 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-09-05 15:31	**Data File**	a cal 5-100ng.d
Sample Type	Calibration	**Sample Name**	a cal 5-100ng.d
Dilution	1	**Acq Method**	MD Quant Panel 1a 7-11-18.m
Position	P1-D12	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28

Sample Chromatogram

+ TIC MRM (** -> **) a cal 5-100ng.d
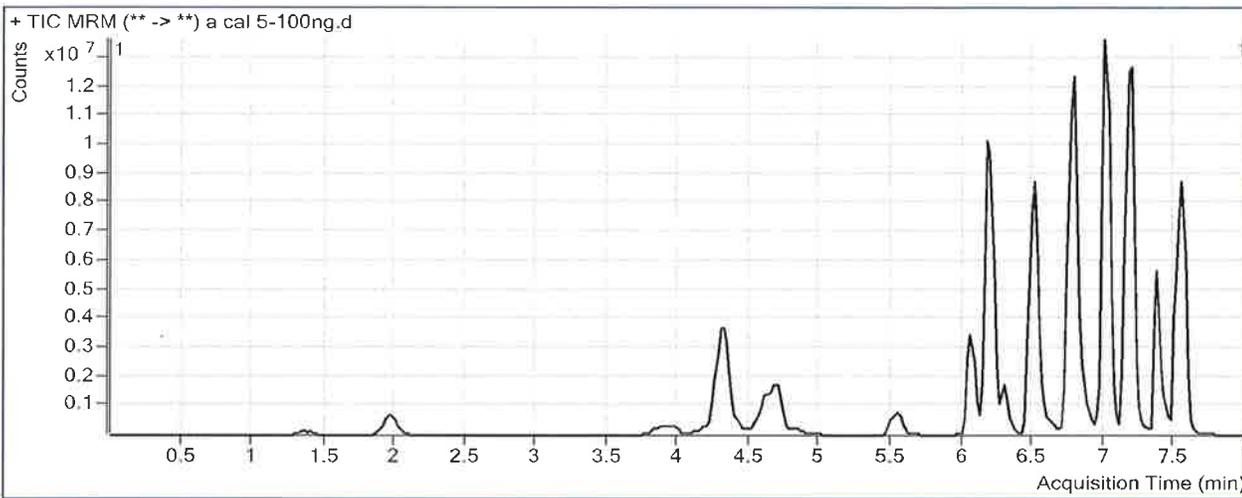
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.368	543613	103833	5.2355	90.3473
Hydromorphone	Hydromorphone-D6	1.969	2198306	783713	2.8050	94.4980
Codeine	Codeine-D6	3.952	864033	346297	2.4951	110.1347
Amphetamine	Amphetamine-D11	4.303	8926285	1070571	8.3379	106.7698
Oxycodone	Oxycodone-D6	4.310	8253058	3139771	2.6286	99.7296
Hydrocodone	Hydrocodone-D6	4.615	2795643	1604276	1.7426	95.7558
Norhydrocodone	Norhydrocodone-D3	4.658	126227	383341	0.3293	86.1147
Methamphetamine	Methamphetamine-D11	4.702	6241444	1368282	4.5615	101.8394
6-MAM	6-MAM-D6	4.849	77852	331966	0.2345	9.3462
Phentermine	Phentermine-D5	5.566	2290877	2139904	1.0706	90.1033
Dextrorphan	Dextrorphan-D3	6.063	3910468	2981040	1.3118	99.2244
7-aminoclonazepam	7-Aminoclonazepam-D4	6.154	4640823	1825296	2.5425	101.2060
Tramadol	Tramadol-13C-D3	6.203	24523900	12835681	1.9106	102.1217
Metoprolol	Tramadol-13C-D3	6.302	2284808	12835681	0.1780	101.4789
Doxylamine	Doxylamine-D5	6.502	14296598	8103651	1.7642	101.4161
Bupropion	Bupropion-D9	6.771	6237699	1789764	3.4852	99.4631
Zolpidem	Zolpidem-D6	6.779	20824241	12138022	1.7156	114.0719
Meprobamate	Meprobamate-D7	6.873	1958481	635337	3.0826	100.2690
Trazodone	Trazodone-D6	6.996	7675590	2594731	2.9581	106.3838
Venlafaxine	Venlafaxine-D6	7.006	19155669	7499525	2.5543	107.3663

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Citalopram	Citalopram-D6	7.139	7736883	3453444	2.2403	99.8572
Dextromethorphan	Dextromethorphan-D3	7.171	3146928	1154461	2.7259	100.3758
Diphenhydramine	Diphenhydramine-D3	7.194	16548382	8028016	2.0613	107.2356
Promethazine	Promethazine-D3	7.369	11429851	4139459	2.7612	100.7768
Clonazepam	Clonazepam-D4	7.425	2012440	148721	13.5317	103.1472
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.481	688444	297402	2.3149	94.4626
Carisoprodol	Carisoprodol-D7	7.514	5961514	2528952	2.3573	100.2363
Lorazepam	Clonazepam-D4	7.523	679353	148721	4.5680	85.6190
Alprazolam	Alprazolam-D5	7.548	12894046	4119376	3.1301	102.8566

TS P

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1a.batch.bin

Analysis Time	9/6/2018 9:57 AM	**Analyst Name**	ISPUser
Report Time	9/6/2018 2:41 PM	**Reporter Name**	ISPUser
Last Calib Update	9/6/2018 9:56 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-09-05 16:03	**Data File**	a cal 6-250ng.d
Sample Type	Calibration	**Sample Name**	a cal 6-250ng.d
Dilution	1	**Acq Method**	MD Quant Panel 1a 7-11-18.m
Position	P1-C12	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28

Sample Chromatogram
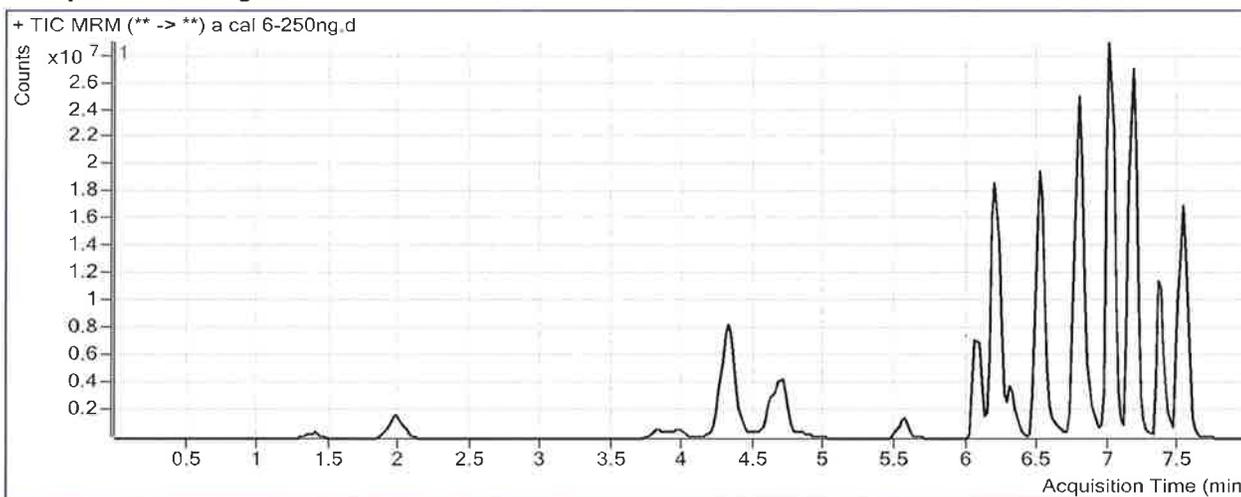
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.368	1470326	96000	15.3160	261.5186
Hydromorphone	Hydromorphone-D6	1.989	5867022	741244	7.9151	263.3757
Codeine	Codeine-D6	3.972	1223083	211222	5.7905	254.3156
Amphetamine	Amphetamine-D11	4.303	19883732	991341	20.0574	265.2121
Oxycodone	Oxycodone-D6	4.330	22215788	3136850	7.0822	266.3916
Hydrocodone	Hydrocodone-D6	4.615	7063331	1517631	4.6542	251.6776
Norhydrocodone	Norhydrocodone-D3	4.678	343498	323559	1.0616	270.4027
Methamphetamine	Methamphetamine-D11	4.702	16085868	1404460	11.4534	253.9583
6-MAM	6-MAM-D6	4.849	201578	324580	0.6210	24.4901
Phentermine	Phentermine-D5	5.566	5962185	1962090	3.0387	251.1432
Dextrorphan	Dextrorphan-D3	6.063	10007533	2857055	3.5027	262.3612
7-aminoclonazepam	7-Aminoclonazepam-D4	6.174	10978553	1606538	6.8337	270.1981
Tramadol	Tramadol-13C-D3	6.203	54036418	12073199	4.4757	238.7795
Metoprolol	Tramadol-13C-D3	6.322	5469047	12073199	0.4530	257.0600
Doxylamine	Doxylamine-D5	6.502	36624937	7810367	4.6893	267.9601
Bupropion	Bupropion-D9	6.771	13387825	1539920	8.6938	244.9973
Zolpidem	Zolpidem-D6	6.779	48263602	11743197	4.1099	274.3440
Meprobamate	Meprobamate-D7	6.873	4722850	627676	7.5243	242.0587
Trazodone	Trazodone-D6	6.996	18846534	2433161	7.7457	277.4954
Venlafaxine	Venlafaxine-D6	7.006	43543910	6873301	6.3352	266.0794

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Citalopram	Citalopram-D6	7.139	18281593	3060175	5.9740	264.0723
Dextromethorphan	Dextromethorphan-D3	7.171	7252526	1049594	6.9098	251.6122
Diphenhydramine	Diphenhydramine-D3	7.194	35415802	6940383	5.1029	264.8820
Promethazine	Promethazine-D3	7.349	28345570	3826917	7.4069	268.6615
Clonazepam	Clonazepam-D4	7.405	5010907	151346	33.1090	250.1165
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.461	1731262	259111	6.6815	268.6637
Carisoprodol	Carisoprodol-D7	7.494	12796708	2083475	6.1420	259.9219
Lorazepam	Clonazepam-D4	7.503	1818474	151346	12.0153	213.7907
Alprazolam	Alprazolam-D5	7.528	28230140	3330902	8.4752	278.5882

TS P

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1a.batch.bin	
Analysis Time	9/6/2018 9:57 AM	**Analyst Name** ISPUser
Report Time	9/6/2018 2:41 PM	**Reporter Name** ISPUser
Last Calib Update	9/6/2018 9:56 AM	**Batch State** Processed

Analysis Info

Acq Time	2018-09-05 16:34	**Data File**	a cal 7-500ng.d
Sample Type	Calibration	**Sample Name**	a cal 7-500ng.d
Dilution	1	**Acq Method**	MD Quant Panel 1a 7-11-18.m
Position	P1-B12	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28

Sample Chromatogram

+ TIC MRM (** -> **) a cal 7-500ng.d
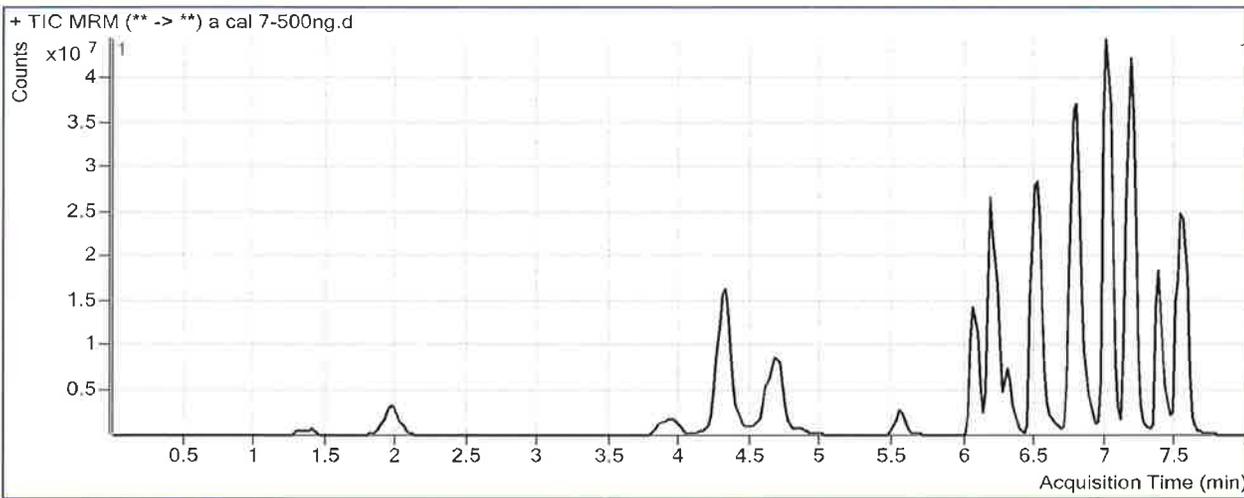
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.348	3179500	92221	34.4770	586.8813
Hydromorphone	Hydromorphone-D6	1.969	12062981	749472	16.0953	533.7131
Codeine	Codeine-D6	3.952	4707824	327635	14.3691	629.6413
Amphetamine	Amphetamine-D11	4.303	36421204	1099397	33.1283	441.9244
Oxycodone	Oxycodone-D6	4.310	46182801	3266911	14.1365	530.3758
Hydrocodone	Hydrocodone-D6	4.615	14873035	1586778	9.3731	504.3881
Norhydrocodone	Norhydrocodone-D3	4.658	611575	294397	2.0774	526.0091
Methamphetamine	Methamphetamine-D11	4.682	33345444	1425930	23.3851	517.3149
6-MAM	6-MAM-D6	4.849	470828	336894	1.3976	54.9133
Phentermine	Phentermine-D5	5.566	12304271	1896443	6.4881	533.3840
Dextrorphan	Dextrorphan-D3	6.063	20927235	2986556	7.0071	523.2953
7-aminoclonazepam	7-Aminoclonazepam-D4	6.154	20089925	1507111	13.3301	526.0362
Tramadol	Tramadol-13C-D3	6.203	80647428	12233363	6.5924	351.5463
Metoprolol	Tramadol-13C-D3	6.302	10556850	12233363	0.8630	489.0089
Doxylamine	Doxylamine-D5	6.502	67492121	8548596	7.8951	450.4912
Bupropion	Bupropion-D9	6.771	29023286	1562853	18.5707	520.9659
Zolpidem	Zolpidem-D6	6.779	77409466	11346333	6.8224	455.9163
Meprobamate	Meprobamate-D7	6.873	9661757	571911	16.8938	541.1516
Trazodone	Trazodone-D6	6.996	35455597	2535987	13.9810	500.3502
Venlafaxine	Venlafaxine-D6	7.006	71864187	7236631	9.9306	417.0022

TS P

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Citalopram	Citalopram-D6	7.139	33431240	2796211	11.9559	527.1663
Dextromethorphan	Dextromethorphan-D3	7.171	14528669	1000732	14.5180	526.6238
Diphenhydramine	Diphenhydramine-D3	7.194	57989583	6981297	8.3064	430.9265
Promethazine	Promethazine-D3	7.369	47099261	3665650	12.8488	465.3197
Clonazepam	Clonazepam-D4	7.405	8900716	123909	71.8328	540.8215
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.481	3369498	264531	12.7376	510.2617
Carisoprodol	Carisoprodol-D7	7.514	21193404	1637911	12.9393	546.7162
Lorazepam	Clonazepam-D4	7.523	3261117	123909	26.3187	459.9562
Alprazolam	Alprazolam-D5	7.548	44720015	2774844	16.1162	529.8011

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

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1a.batch.bin		
Analysis Time	9/6/2018 9:57 AM	**Analyst Name**	ISPUser
Report Time	9/6/2018 2:41 PM	**Reporter Name**	ISPUser
Last Calib Update	9/6/2018 9:56 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-09-05 17:06	**Data File**	a cal 8-1000ng.d
Sample Type	Calibration	**Sample Name**	a cal 8-1000ng.d
Dilution	1	**Acq Method**	MD Quant Panel 1a 7-11-18.m
Position	P1-A12	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28

Sample Chromatogram

+ TIC MRM (** -> **) a cal 8-1000ng.d
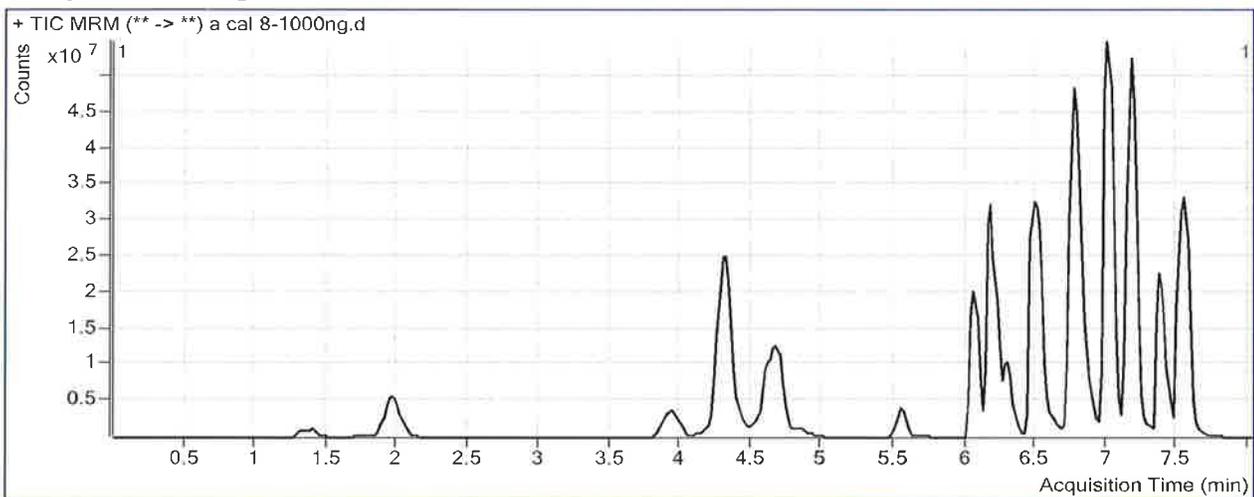
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.368	5608823	86022	65.2021	1108.6068
Hydromorphone	Hydromorphone-D6	1.969	21892529	633387	34.5642	1144.0697
Codeine	Codeine-D6	3.932	8248247	287102	28.7293	1257.9213
Amphetamine	Amphetamine-D11	4.303	57193901	897822	63.7029	855.2778
Oxycodone	Oxycodone-D6	4.310	80727204	2932932	27.5244	1031.3702
Hydrocodone	Hydrocodone-D6	4.615	26892847	1441071	18.6617	1001.8167
Norhydrocodone	Norhydrocodone-D3	4.658	1105478	248581	4.4471	1122.3401
Methamphetamine	Methamphetamine-D11	4.682	47840359	1016469	47.0652	1039.9870
6-MAM	6-MAM-D6	4.849	897581	310288	2.8927	113.4939
Phentermine	Phentermine-D5	5.546	19182503	1608230	11.9277	978.4735
Dextrorphan	Dextrorphan-D3	6.063	33433065	2393598	13.9677	1041.5704
7-aminoclonazepam	7-Aminoclonazepam-D4	6.154	32003252	1326337	24.1291	951.3144
Tramadol	Tramadol-13C-D3	6.180	100596386	10282389	9.7834	521.5449
Metoprolol	Tramadol-13C-D3	6.302	16684338	10282389	1.6226	918.8058
Doxylamine	Doxylamine-D5	6.502	88594597	7715990	11.4819	654.7150
Bupropion	Bupropion-D9	6.751	40317062	1142576	35.2861	988.0098
Zolpidem	Zolpidem-D6	6.779	96814420	10311552	9.3889	627.7158
Meprobamate	Meprobamate-D7	6.873	16927868	559064	30.2790	968.4320
Trazodone	Trazodone-D6	6.996	50573182	2078151	24.3357	870.4359
Venlafaxine	Venlafaxine-D6	7.006	90374348	6011258	15.0342	631.2336

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Citalopram	Citalopram-D6	7.139	41530558	1908882	21.7565	958.2141
Dextromethorphan	Dextromethorphan-D3	7.171	21495421	748573	28.7152	1039.8041
Diphenhydramine	Diphenhydramine-D3	7.194	74759766	5187890	14.4104	747.3055
Promethazine	Promethazine-D3	7.369	56642060	3100201	18.2704	661.2448
Clonazepam	Clonazepam-D4	7.425	16339782	111399	146.6774	1102.6899
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.481	6236930	222528	28.0277	1120.2300
Carisoprodol	Carisoprodol-D7	7.514	27149182	1263585	21.4858	907.3159
Lorazepam	Clonazepam-D4	7.523	7014760	111399	62.9694	1090.7285
Alprazolam	Alprazolam-D5	7.568	59875215	2099329	28.5211	937.6361

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1b.batch.bin		
Analysis Time	9/6/2018 10:03 AM	**Analyst Name**	ISPUser
Report Time	9/6/2018 2:45 PM	**Reporter Name**	ISPUser
Last Calib Update	9/6/2018 10:03 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-09-05 18:25	**Data File**	b Negative control.d
Sample Type	Sample	**Sample Name**	b Negative control.d
Dilution	1	**Acq Method**	MD Quant Panel 1b 7-11-18.m
Position	P1-D11	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28

Sample Chromatogram
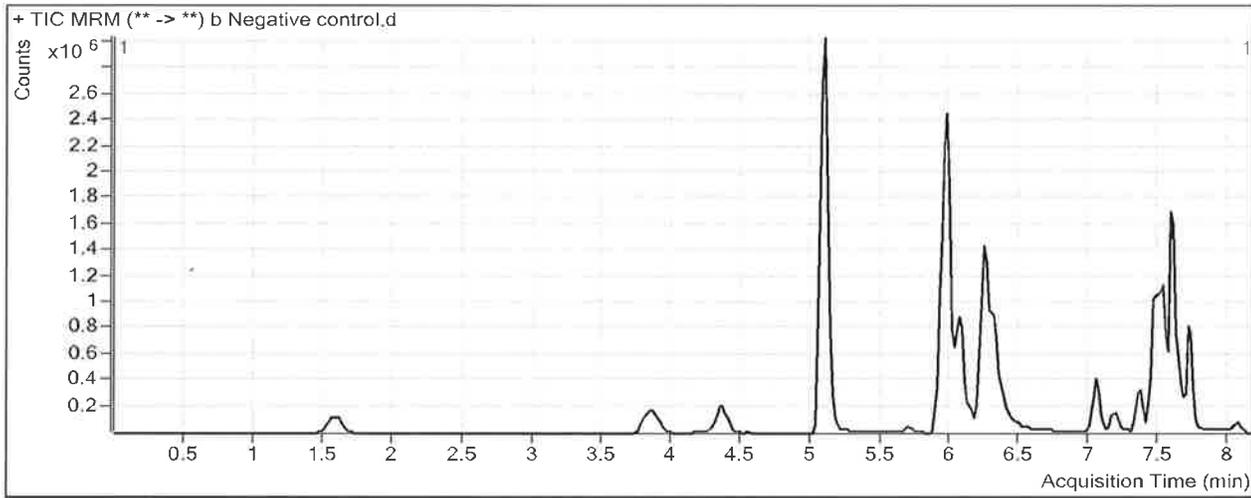
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Buprenorphine	Buprenorphine-D4	7.798	3854	336785	0.0114	0.1350 DNɛ

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

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1b.batch.bin		
Analysis Time	9/6/2018 10:03 AM	**Analyst Name**	ISPUser
Report Time	9/6/2018 2:45 PM	**Reporter Name**	ISPUser
Last Calib Update	9/6/2018 10:03 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-09-05 18:56	**Data File**	b External control-50ng mL.d
Sample Type	Sample	**Sample Name**	b External control-50ng mL.d
Dilution	1	**Acq Method**	MD Quant Panel 1b 7-11-18.m
Position	P1-C11	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28; WS121217 50 ng trazodone, ketamine, morphine, quetiapine

Sample Chromatogram

+ TIC MRM (** -> **) b External control-50ng mL.d
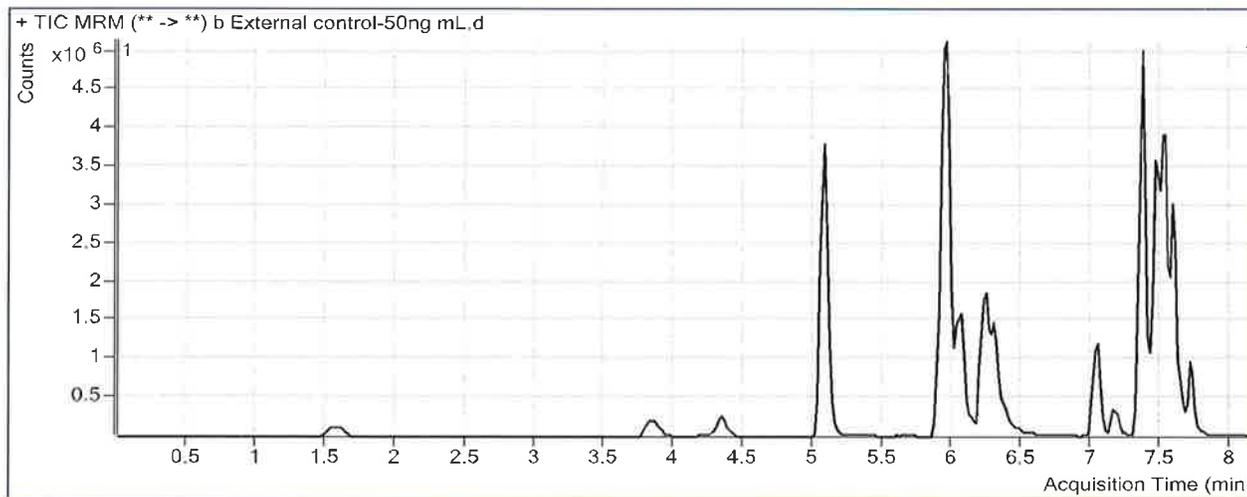
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Ketamine	Ketamine-D4	5.942	9952050	7373987	1.3496	58.3412
Quetiapine	Quetiapine-D8	7.358	10266424	2419045	4.2440	48.7875
Buprenorphine	Buprenorphine-D4	7.637	7809	1405536	0.0056	0.0000

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

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1b.batch.bin		
Analysis Time	9/6/2018 10:03 AM	**Analyst Name**	ISPUser
Report Time	9/6/2018 2:45 PM	**Reporter Name**	ISPUser
Last Calib Update	9/6/2018 10:03 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-09-05 19:59	**Data File**	b QC 10 (QC1).d
Sample Type	QC	**Sample Name**	b QC 10 (QC1).d
Dilution	1	**Acq Method**	MD Quant Panel 1b 7-11-18.m
Position	P1-H11	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28

Sample Chromatogram
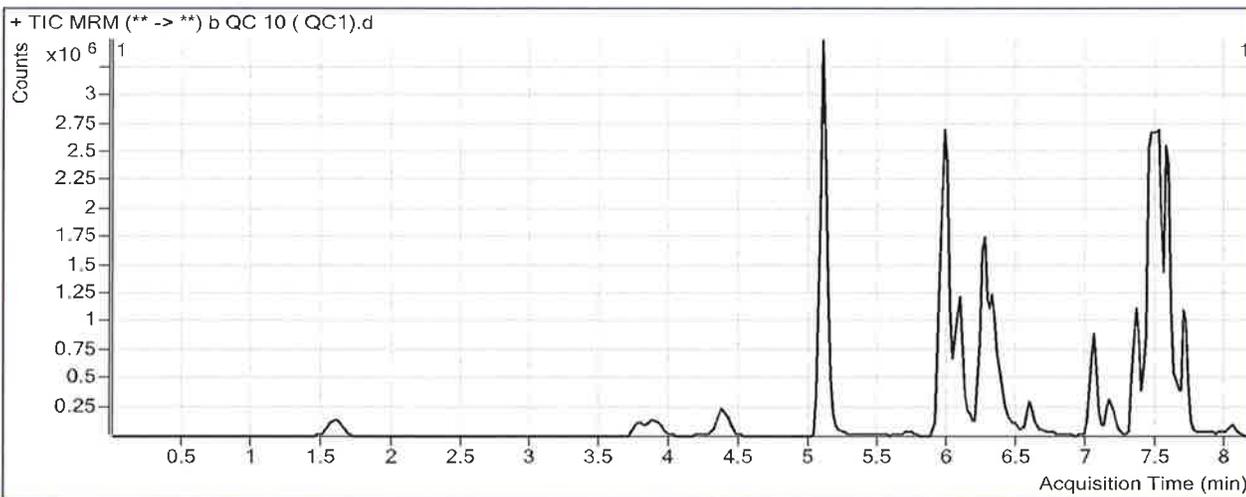
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Oxymorphone	Oxymorphone-D3	1.608	188518	842222	0.2238	9.0951
Dihydrocodeine	Dihydrocodeine-D6	3.930	195883	605780	0.3234	17.7979 **
Noroxycodone	Noroxycodone-D3	4.411	297721	1183297	0.2516	9.3664
O-desmethyl-tramadol	O-desmethyl-tramadol-D6	5.100	2329081	12294490	0.1894	10.0973 **
Benzoylecgonine	Benzoylecgonine-d8	5.731	26464	115728	0.2287	71.7333 **
Ketamine	Ketamine-D4	5.962	1205507	5699334	0.2115	9.9321
Norfentanyl	Norfentanyl-D5	6.004	87402	6653229	0.0131	1.1390
Cocaine	Cocaine-d3	6.252	437818	6346986	0.0690	10.2166
alpha-PVP	alpha-PVP-d8	6.348	606878	4180771	0.1452	9.0639
Mirtazapine	alpha-PVP-d8	6.583	623903	4180771	0.1492	7.9108
Norbuprenorphine	Norbuprenorphine-D3	6.974	1070	39950	0.0268	0.0000 **
Fentanyl	Fentanyl-D5	7.057	35303	2890056	0.0122	1.0235
Mitragynine	EDDP-D3	7.136	171709	769060	0.2233	9.0833
EDDP	EDDP-D3	7.169	111053	769060	0.1444	8.8639
Quetiapine	Quetiapine-D8	7.358	1410811	1737744	0.8119	9.8282
Cyclobenzaprine	Cyclobenzaprine-D3	7.433	362773	1665004	0.2179	10.7201
Methadone	Methadone-D9	7.461	1396269	5340497	0.2614	10.5444
Buprenorphine	Buprenorphine-D4	7.476	14675	657800	0.0223	0.5131 **
Fluoxetine	Fluoxetine-D6	7.502	1192576	5582077	0.2136	10.5745

** Did not evaluate. Þ

TS P

b QC 10

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Oxazepam	Oxazepam-D5	7.529	58677	343491	0.1708	10.2836
Sertraline	Sertraline-D3	7.563	432430	2405060	0.1798	9.9298
Temazepam	Temazepam-D5	7.584	781842	4122076	0.1897	9.6828
Nordiazepam	Nordiazepam-D5	7.655	210873	621763	0.3392	9.6258
Diazepam	Diazepam-D5	7.712	462731	2137392	0.2165	10.2824

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

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1b.batch.bin
Analysis Time	9/6/2018 10:03 AM
Report Time	9/6/2018 2:45 PM
Last Calib Update	9/6/2018 10:03 AM

Analysis Time	9/6/2018 10:03 AM	**Analyst Name**	ISPUser
Report Time	9/6/2018 2:45 PM	**Reporter Name**	ISPUser
Last Calib Update	9/6/2018 10:03 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-09-05 21:33	**Data File**	b QC 100 (QC2).d
Sample Type	QC	**Sample Name**	b QC 100 (QC2).d
Dilution	1	**Acq Method**	MD Quant Panel 1b 7-11-18.m
Position	P1-G11	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28

Sample Chromatogram

+ TIC MRM (** -> **) b QC 100 (QC2).d
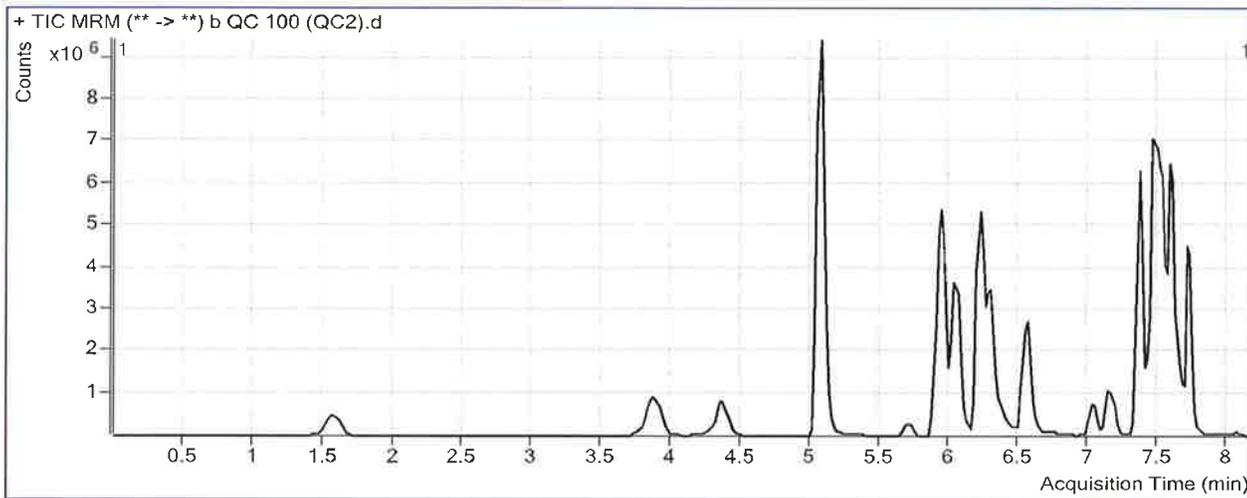
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Oxymorphone	Oxymorphone-D3	1.568	2240656	832369	2.6919	89.1825
Dihydrocodeine	Dihydrocodeine-D6	3.890	2417656	1227475	1.9696	97.6643 **
Noroxycodone	Noroxycodone-D3	4.371	3413712	1093953	3.1205	94.9299
O-desmethyl-tramadol	O-desmethyl-tramadol-D6	5.072	26113147	12762915	2.0460	102.7500
Benzoylecgonine	Benzoylecgonine-d8	5.690	337523	114408	2.9502	145.4385 **
Ketamine	Ketamine-D4	5.942	12844303	5761769	2.2292	95.7556
Norfentanyl	Norfentanyl-D5	5.984	1120852	6252348	0.1793	8.7333
Cocaine	Cocaine-d3	6.212	4377684	6211108	0.7048	86.2639
alpha-PVP	alpha-PVP-d8	6.308	6260842	3544770	1.7662	98.4927
Mirtazapine	alpha-PVP-d8	6.563	6536697	3544770	1.8440	98.3542
Norbuprenorphine	Norbuprenorphine-D3	6.994	5941	30797	0.1929	7.3653 **
Fentanyl	Fentanyl-D5	7.037	318801	2369386	0.1346	8.0832
Mitragynine	EDDP-D3	7.115	1684889	721974	2.3337	87.2821
EDDP	EDDP-D3	7.169	1394628	721974	1.9317	89.7107
Quetiapine	Quetiapine-D8	7.358	14014116	1505729	9.3072	106.2614
Cyclobenzaprine	Cyclobenzaprine-D3	7.453	2991579	1336393	2.2385	89.1720
Methadone	Methadone-D9	7.481	11628408	4392190	2.6475	100.0912
Buprenorphine	Buprenorphine-D4	7.496	153088	553900	0.2764	9.3511 **
Fluoxetine	Fluoxetine-D6	7.521	9630832	4278817	2.2508	107.3287

** Did not evaluate. P

TS ᗷ

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Oxazepam	Oxazepam-D5	7.549	598608	289247	2.0695	92.6126
Sertraline	Sertraline-D3	7.583	3515170	1872168	1.8776	89.3234
Temazepam	Temazepam-D5	7.604	7096131	3405572	2.0837	101.3166
Nordiazepam	Nordiazepam-D5	7.675	2016190	508933	3.9616	97.4250
Diazepam	Diazepam-D5	7.712	5006534	2047873	2.4447	92.7185

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

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1b.batch.bin
Analysis Time	9/6/2018 10:03 AM
Report Time	9/6/2018 2:46 PM
Last Calib Update	9/6/2018 10:03 AM

Analyst Name	ISPUser
Reporter Name	ISPUser
Batch State	Processed

Analysis Info

Acq Time	2018-09-06 00:10	**Data File**	b QC 250 (QC 3).d
Sample Type	QC	**Sample Name**	b QC 250 (QC 3).d
Dilution	1	**Acq Method**	MD Quant Panel 1b 7-11-18.m
Position	P1-F11	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28

Sample Chromatogram

+ TIC MRM (** -> **) b QC 250 (QC 3).d
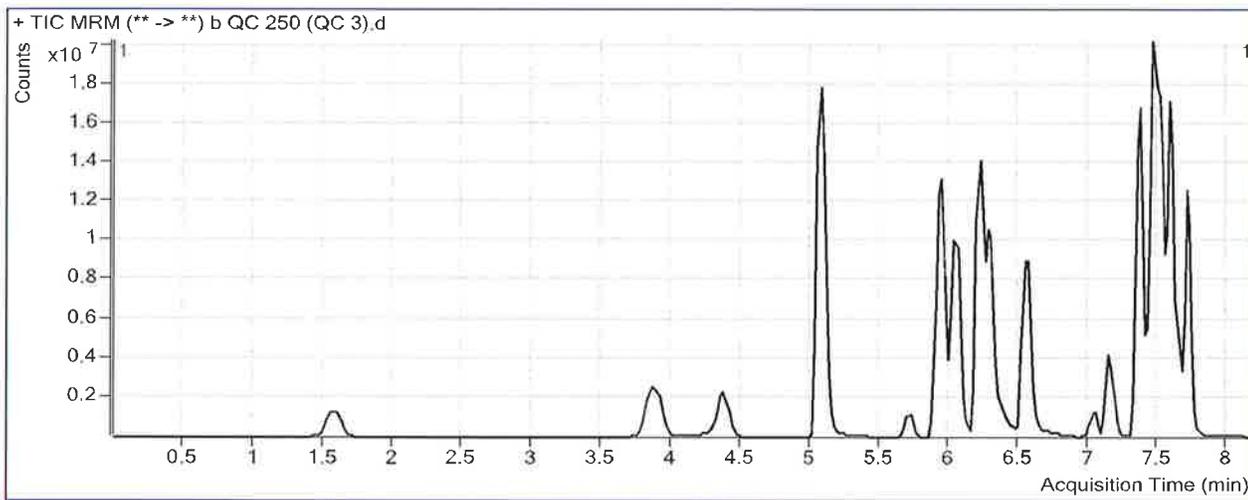
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc	
Oxymorphone	Oxymorphone-D3	1.588	7434600	985656	7.5428	246.5913	
Dihydrocodeine	Dihydrocodeine-D6	3.870	8156928	1533955	5.3176	260.0869	✱✱
Noroxycodone	Noroxycodone-D3	4.371	11001959	1307939	8.4117	252.7343	
O-desmethyl-tramadol	O-desmethyl-tramadol-D6	5.072	68367348	15304889	4.4670	223.5707	
Benzoylecgonine	Benzoylecgonine-d8	5.711	1409799	134283	10.4987	349.8712	✱✱
Ketamine	Ketamine-D4	5.942	40938980	6600311	6.2026	264.7626	
Norfentanyl	Norfentanyl-D5	5.984	3890231	7829068	0.4969	23.2528	
Cocaine	Cocaine-d3	6.212	14936244	7560505	1.9756	238.2481	
alpha-PVP	alpha-PVP-d8	6.308	21845900	4721478	4.6269	256.3085	
Mirtazapine	alpha-PVP-d8	6.563	22116662	4721478	4.6843	249.9229	
Norbuprenorphine	Norbuprenorphine-D3	6.954	20312	42688	0.4758	21.7909	✱✱
Fentanyl	Fentanyl-D5	7.037	1135185	2806012	0.4046	23.6647	
Mitragynine	EDDP-D3	7.115	5854688	966321	6.0587	225.3053	
EDDP	EDDP-D3	7.169	5494335	966321	5.6858	259.5272	
Quetiapine	Quetiapine-D8	7.358	40427388	1973876	20.4812	233.1011	
Cyclobenzaprine	Cyclobenzaprine-D3	7.433	9914601	1664361	5.9570	233.5401	
Methadone	Methadone-D9	7.461	36254348	6151313	5.8938	221.9192	
Buprenorphine	Buprenorphine-D4	7.496	563933	746375	0.7556	26.0196	✱✱
Fluoxetine	Fluoxetine-D6	7.521	28153892	4903000	5.7422	273.1485	

✱✱ Did not evaluate. P

TS

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Oxazepam	Oxazepam-D5	7.549	2161983	387299	5.5822	244.9236
Sertraline	Sertraline-D3	7.583	10287810	2081759	4.9419	232.6181
Temazepam	Temazepam-D5	7.604	22121325	4029618	5.4897	266.1018
Nordiazepam	Nordiazepam-D5	7.655	6066898	576370	10.5260	256.5309
Diazepam	Diazepam-D5	7.712	15640422	2357969	6.6330	247.6664

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

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1b.batch.bin		
Analysis Time	9/6/2018 10:03 AM	**Analyst Name**	ISPUser
Report Time	9/6/2018 2:46 PM	**Reporter Name**	ISPUser
Last Calib Update	9/6/2018 10:03 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-09-06 02:47	**Data File**	b QC 1000 (QC4).d
Sample Type	QC	**Sample Name**	b QC 1000 (QC4).d
Dilution	1	**Acq Method**	MD Quant Panel 1b 7-11-18.m
Position	P1-E11	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28

Sample Chromatogram

+ TIC MRM (** -> **) b QC 1000 (QC4).d
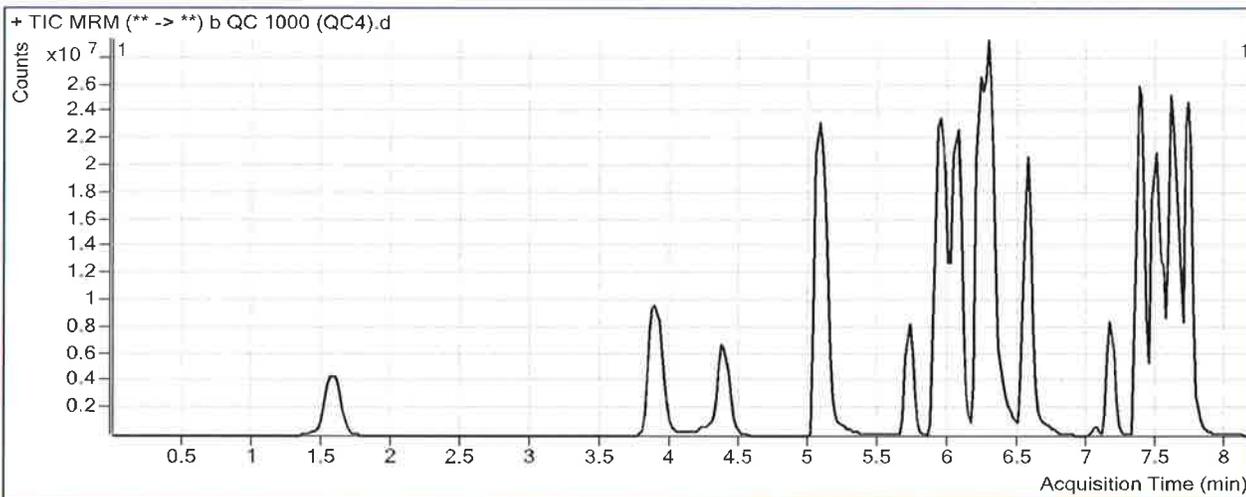
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc	
Oxymorphone	Oxymorphone-D3	1.588	28181003	958504	29.4010	955.8782	
Dihydrocodeine	Dihydrocodeine-D6	3.890	27566866	1392381	19.7984	962.6058	
Noroxycodone	Noroxycodone-D3	4.371	34342661	938500	36.5931	1093.2243	
O-desmethyl-tramadol	O-desmethyl-tramadol-D6	5.072	124528671	12656037	9.8395	491.6831	
Benzoylecgonine	Benzoylecgonine-d8	5.711	10244007	120526	84.9939	2367.3902	
Ketamine	Ketamine-D4	5.942	98143889	5859545	16.7494	713.3727	
Norfentanyl	Norfentanyl-D5	6.004	14583392	6288905	2.3189	106.5416	
Cocaine	Cocaine-d3	6.212	44983483	5534123	8.1284	974.1397	
alpha-PVP	alpha-PVP-d8	6.308	60597527	3714319	16.3146	901.0794	
Mirtazapine	alpha-PVP-d8	6.563	48574008	3714319	13.0775	697.8277	
Norbuprenorphine	Norbuprenorphine-D3	6.974	20515	9771	2.0996	104.5869	
Fentanyl	Fentanyl-D5	7.057	1013553	531459	1.9071	110.3751	
Mitragynine	EDDP-D3	7.136	5914320	626122	9.4460	350.8121	
EDDP	EDDP-D3	7.169	15890629	626122	25.3795	1150.3570	
Quetiapine	Quetiapine-D8	7.358	62324085	1116441	55.8239	634.2867	
Cyclobenzaprine	Cyclobenzaprine-D3	7.453	7274047	262381	27.7232	1078.6070	
Methadone	Methadone-D9	7.481	43992048	1711215	25.7081	965.5307	
Buprenorphine	Buprenorphine-D4	7.496	440999	175865	2.5076	86.9648	
Fluoxetine	Fluoxetine-D6	7.521	13786981	536726	25.6872	1220.4235	

*Outside curve range. P
**Did not evaluate.

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Oxazepam	Oxazepam-D5	7.549	8233136	318964	25.8121	1122.1013
Sertraline	Sertraline-D3	7.603	4689116	203895	22.9977	1076.9564
Temazepam	Temazepam-D5	7.604	56248796	3203111	17.5607	850.1068
Nordiazepam	Nordiazepam-D5	7.675	17584735	417677	42.1013	1021.8365
Diazepam	Diazepam-D5	7.732	41282841	1628340	25.3527	940.2170

ISP Forensics
Calibration Curve Report

TS

Batch Data Path   C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1b.batch.bin

Last Calib Update   9/6/2018 10:03 AM   **Analyst Name**   ISP TOX

Target Compound   *Oxymorphone*
Internal Standard   *Oxymorphone-D3*

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

$y = 0.030817 * x - 0.056450$
$R^2 = 0.99285208$
Type:Linear, Origin:Ignore, Weight:$1/x^2$
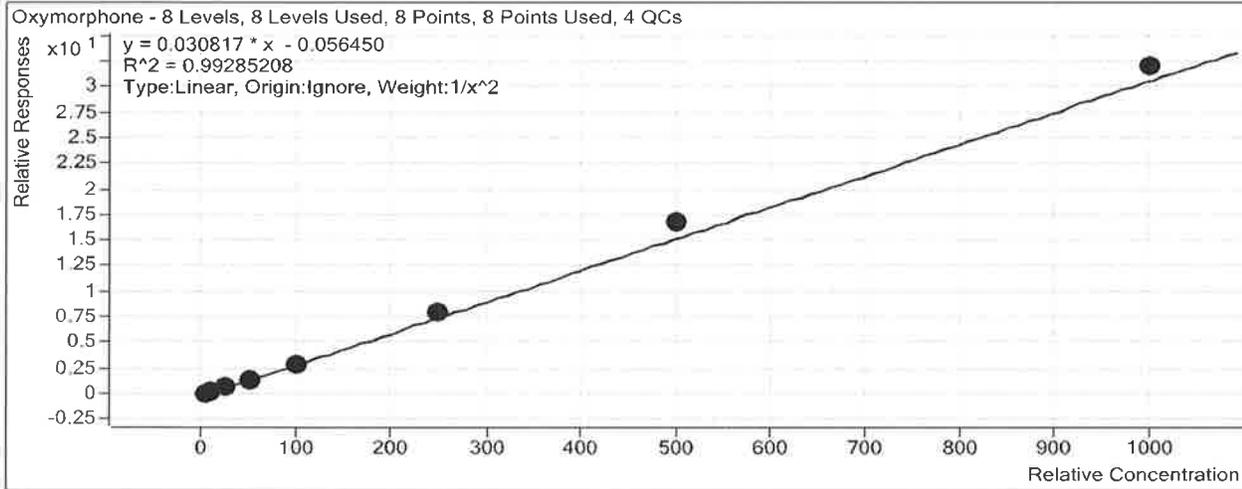
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng.d	1	☑	5	5.3	106.2
b cal 2-10ng.d	2	☑	10	9.3	92.9
b QC 10 (QC1).d	2	☑	10	9.1	91.0
b cal 3-25ng.d	3	☑	25	22.0	88.0
b cal 4-50ng.d	4	☑	50	48.3	96.6
b cal 5-100ng.d	5	☑	100	97.8	97.8
b QC 100 (QC2).d	5	☑	100	89.2	89.2
b cal 6-250ng.d	6	☑	250	263.8	105.5
b QC 250 (QC 3).d	6	☑	250	246.6	98.6
b cal 7-500ng.d	7	☑	500	545.6	109.1
b cal 8-1000ng.d	8	☑	1000	1039.0	103.9
b QC 1000 (QC4).d	8	☑	1000	955.9	95.6

TS

Batch Data Path   C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1b.batch.bin

Last Calib Update   9/6/2018 10:03 AM   **Analyst Name**   ISP TOX

Target Compound   *Dihydrocodeine*
Internal Standard   *Dihydrocodeine-D6*

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

$y = 0.020613 * x - 0.043506$
$R^2 = 0.99915020$
Type:Linear, Origin:Ignore, Weight:1/x
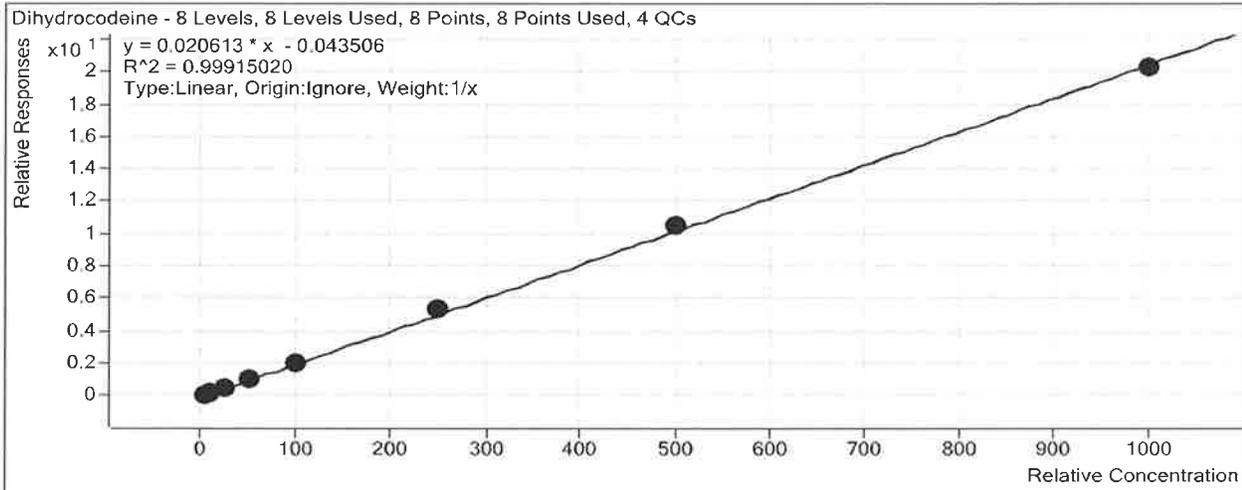
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng.d	1	☑	5	5.7	114.2
b cal 2-10ng.d	2	☑	10	9.7	96.5
b QC 10 (QC1).d	2	☑	10	17.8	178.0
b cal 3-25ng.d	3	☑	25	22.5	90.1
b cal 4-50ng.d	4	☑	50	48.0	96.0
b cal 5-100ng.d	5	☑	100	97.9	97.9
b QC 100 (QC2).d	5	☑	100	97.7	97.7
b cal 6-250ng.d	6	☑	250	262.4	105.0
b QC 250 (QC 3).d	6	☑	250	260.1	104.0
b cal 7-500ng.d	7	☑	500	509.1	101.8
b cal 8-1000ng.d	8	☑	1000	984.6	98.5
b QC 1000 (QC4).d	8	☑	1000	962.6	96.3

Did not evaluate. P TS

ISP Forensics
Calibration Curve Report

Batch Data Path   C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1b.batch.bin

Last Calib Update   9/6/2018 10:03 AM   **Analyst Name**   ISP TOX

Target Compound   *Noroxycodone*
Internal Standard   *Noroxycodone-D3*

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

$y = 0.033530 * x - 0.062450$
$R^2 = 0.99188850$
Type:Linear, Origin:Ignore, Weight:$1/x^2$
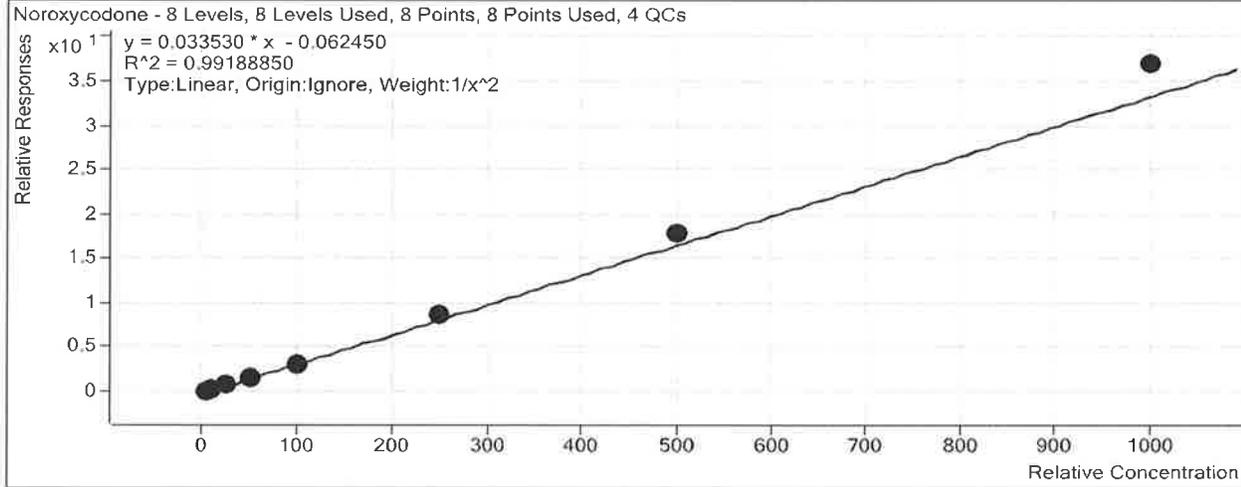
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng.d	1	☑	5	5.3	105.8
b cal 2-10ng.d	2	☑	10	9.4	93.8
b QC 10 (QC1).d	2	☑	10	9.4	93.7
b cal 3-25ng.d	3	☑	25	22.1	88.5
b cal 4-50ng.d	4	☑	50	48.2	96.4
b cal 5-100ng.d	5	☑	100	94.0	94.0
b QC 100 (QC2).d	5	☑	100	94.9	94.9
b cal 6-250ng.d	6	☑	250	258.6	103.4
b QC 250 (QC 3).d	6	☑	250	252.7	101.1
b cal 7-500ng.d	7	☑	500	538.6	107.7
b cal 8-1000ng.d	8	☑	1000	1102.9	110.3
b QC 1000 (QC4).d	8	☑	1000	1093.2	109.3

ISP Forensics
Calibration Curve Report

TS

Batch Data Path   C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1b.batch.bin

Last Calib Update   9/6/2018 10:03 AM   **Analyst Name**   ISP TOX

Target Compound   *O-desmethyl-tramadol*
Internal Standard   *O-desmethyl-tramadol-D6*

O-desmethyl-tramadol - 8 Levels, 6 Levels Used, 8 Points, 6 Points Used, 4 QCs

$y = 0.020038 * x - 0.012888$
$R^2 = 0.99810628$
Type:Linear, Origin:Ignore, Weight:$1/x^2$
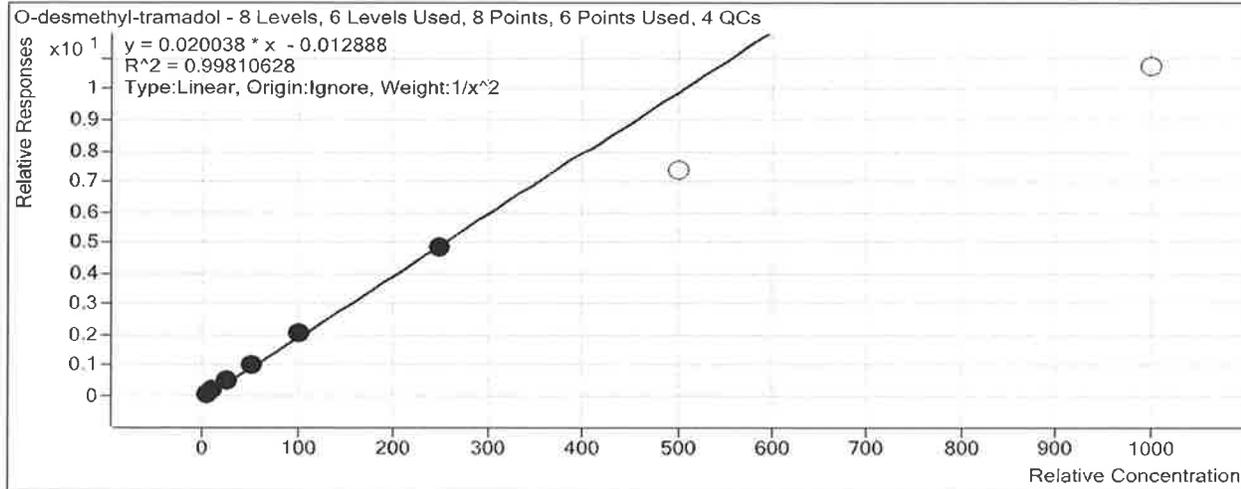
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng.d	1	☑	5	5.0	100.4
b cal 2-10ng.d	2	☑	10	10.0	99.8
b QC 10 (QC1).d	2	☑	10	10.1	101.0
b cal 3-25ng.d	3	☑	25	23.9	95.6
b cal 4-50ng.d	4	☑	50	52.6	105.3
b cal 5-100ng.d	5	☑	100	102.2	102.2
b QC 100 (QC2).d	5	☑	100	102.7	102.7
b cal 6-250ng.d	6	☑	250	241.7	96.7
b QC 250 (QC 3).d	6	☑	250	223.6	89.4
b cal 7-500ng.d	7	☐	500	367.5	73.5
b cal 8-1000ng.d	8	☐	1000	536.7	53.7
b QC 1000 (QC4).d	8	☐	1000	491.7	49.2

ISP Forensics
# Calibration Curve Report

Batch Data Path   C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1b.batch.bin

Last Calib Update   9/6/2018 10:03 AM   **Analyst Name**   ISP TOX

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

Benzoylecgonine - 8 Levels, 5 Levels Used, 8 Points, 5 Points Used, 4 QCs

$y = 0.036924 * x - 2.420014$
$R^2 = 0.98405340$
Type:Linear, Origin:Ignore, Weight:None
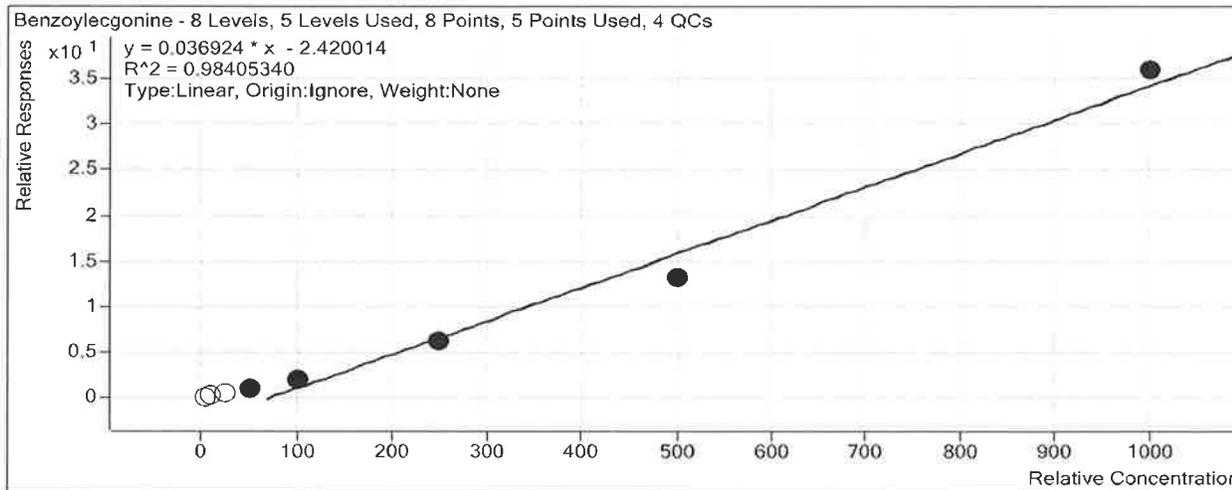
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng.d	1	☐	5	66.9	1338.2
b cal 2-10ng.d	2	☐	10	69.6	696.2
b QC 10 (QC1).d	2	☑	10	71.7	717.3
b cal 3-25ng.d	3	☐	25	74.5	298.2
b cal 4-50ng.d	4	☑	50	88.6	177.1
b cal 5-100ng.d	5	☑	100	119.1	119.1
b QC 100 (QC2).d	5	☑	100	145.4	145.4
b cal 6-250ng.d	6	☑	250	229.6	91.8
b QC 250 (QC 3).d	6	☑	250	349.9	139.9
b cal 7-500ng.d	7	☑	500	423.0	84.6
b cal 8-1000ng.d	8	☑	1000	1039.8	104.0
b QC 1000 (QC4).d	8	☐	1000	2367.4	236.7

Did not evaluate. P TS

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1b.batch.bin

Last Calib Update 9/6/2018 10:03 AM   **Analyst Name**   ISP TOX

Target Compound   *Ketamine*
Internal Standard   *Ketamine-D4*

Ketamine - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 4 QCs

$y = 0.023510 * x - 0.021986$
$R^2 = 0.99806153$
Type:Linear, Origin:Ignore, Weight:$1/x^2$
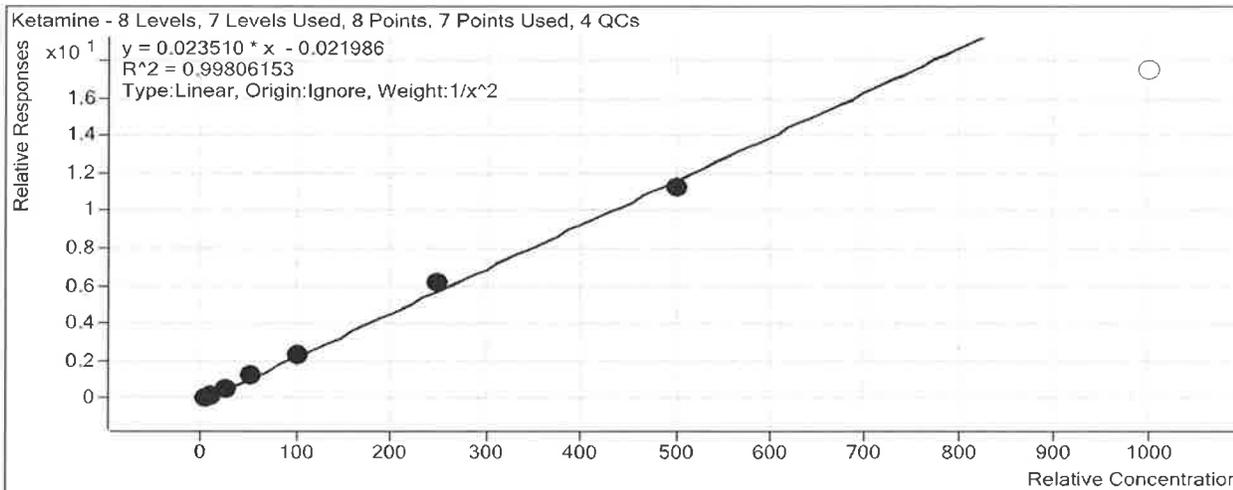
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng.d	1	☑	5	5.1	101.6
b cal 2-10ng.d	2	☑	10	9.7	97.3
b QC 10 (QC1).d	2	☑	10	9.9	99.3
b cal 3-25ng.d	3	☑	25	24.2	96.6
b cal 4-50ng.d	4	☑	50	51.7	103.4
b cal 5-100ng.d	5	☑	100	99.4	99.4
b QC 100 (QC2).d	5	☑	100	95.8	95.8
b cal 6-250ng.d	6	☑	250	264.4	105.8
b QC 250 (QC 3).d	6	☑	250	264.8	105.9
b cal 7-500ng.d	7	☑	500	479.2	95.8
b cal 8-1000ng.d	8	☐	1000	744.2	74.4
b QC 1000 (QC4).d	8	☑	1000	713.4	71.3

TS

Batch Data Path   C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1b.batch.bin

Last Calib Update   9/6/2018 10:03 AM   **Analyst Name**   ISP TOX

Target Compound   *Norfentanyl*
Internal Standard   *Norfentanyl-D5*

Norfentanyl - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 4 QCs

$y = 0.021876 * x - 0.011780$
$R^2 = 0.99768000$
Type:Linear, Origin:Ignore, Weight:1/x
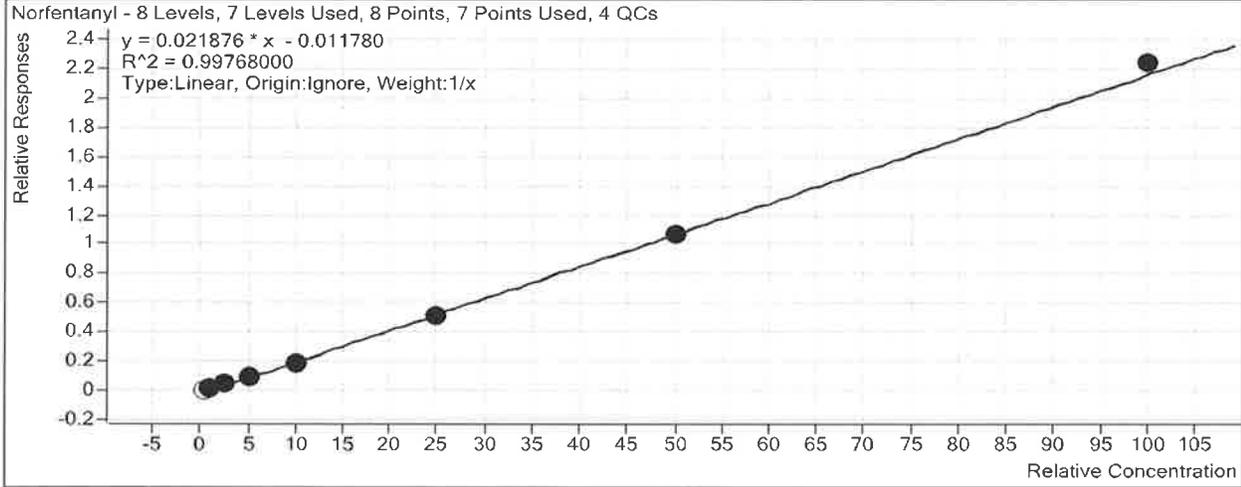
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng.d	1	☐	0.5	0.8	165.5
b cal 2-10ng.d	2	☑	1	1.3	125.2
b QC 10 (QC1).d	2	☐	1	1.1	113.9
b cal 3-25ng.d	3	☑	2.5	2.4	97.2
b cal 4-50ng.d	4	☑	5	4.6	91.6
b cal 5-100ng.d	5	☑	10	8.9	88.7
b QC 100 (QC2).d	5	☑	10	8.7	87.3
b cal 6-250ng.d	6	☑	25	23.7	94.8
b QC 250 (QC 3).d	6	☑	25	23.3	93.0
b cal 7-500ng.d	7	☑	50	49.7	99.3
b cal 8-1000ng.d	8	☑	100	103.0	103.0
b QC 1000 (QC4).d	8	☑	100	106.5	106.5

ISP Forensics
Calibration Curve Report

TS

Batch Data Path　　　C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1b.batch.bin

Last Calib Update　　　9/6/2018 10:03 AM　　　**Analyst Name**　　　ISP TOX

Target Compound　　Cocaine
Internal Standard　　　*Cocaine-d3*

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

$y = 0.008361 * x - 0.016441$
$R^2 = 0.99907739$
Type:Linear, Origin:Ignore, Weight:1/x

Relative Responses vs Relative Concentration
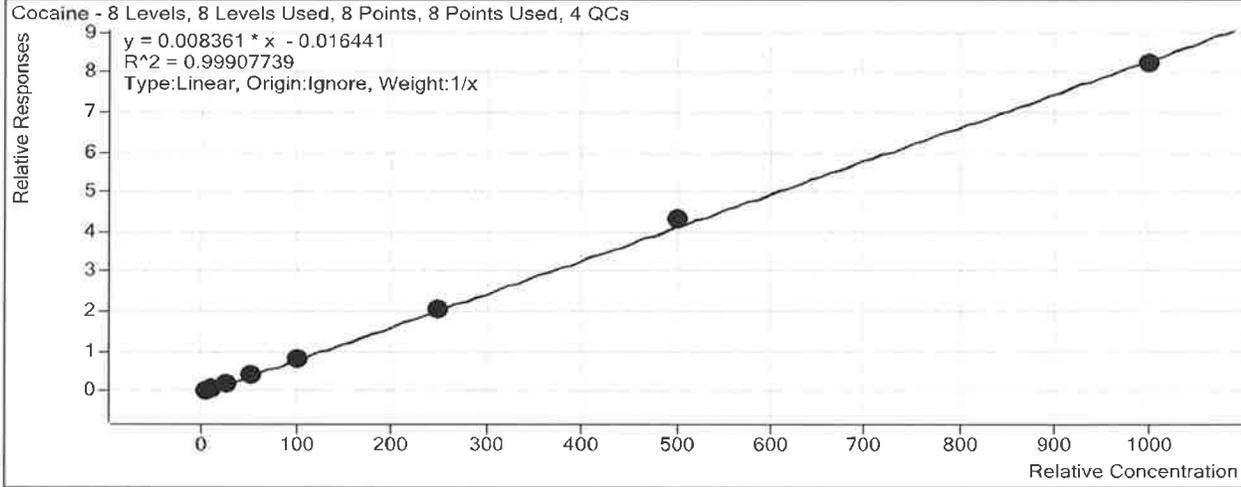
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng.d	1	☑	5	5.7	114.1
b cal 2-10ng.d	2	☑	10	10.0	100.0
b QC 10 (QC1).d	2	☑	10	10.2	102.2
b cal 3-25ng.d	3	☑	25	22.3	89.2
b cal 4-50ng.d	4	☑	50	47.6	95.1
b cal 5-100ng.d	5	☑	100	99.4	99.4
b QC 100 (QC2).d	5	☑	100	86.3	86.3
b cal 6-250ng.d	6	☑	250	248.5	99.4
b QC 250 (QC 3).d	6	☑	250	238.2	95.3
b cal 7-500ng.d	7	☑	500	521.2	104.2
b cal 8-1000ng.d	8	☑	1000	985.3	98.5
b QC 1000 (QC4).d	8	☑	1000	974.1	97.4

ISP Forensics
Calibration Curve Report

Batch Data Path   C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1b.batch.bin

Last Calib Update   9/6/2018 10:03 AM   **Analyst Name**   ISP TOX

Target Compound   *alpha-PVP*
Internal Standard   *alpha-PVP-d8*

alpha-PVP - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs

$y = 0.018127 * x - 0.019141$
$R^2 = 0.99688870$
Type:Linear, Origin:Ignore, Weight:$1/x^2$
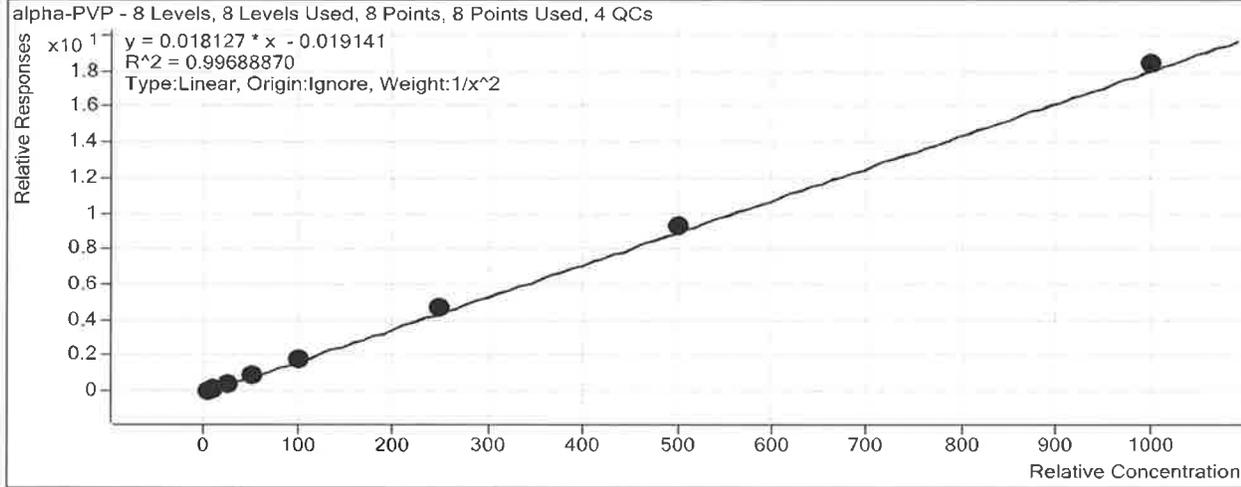
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng.d	1	☑	5	5.2	103.5
b cal 2-10ng.d	2	☑	10	9.7	96.8
b QC 10 (QC1).d	2	☑	10	9.1	90.6
b cal 3-25ng.d	3	☑	25	22.7	90.6
b cal 4-50ng.d	4	☑	50	49.5	98.9
b cal 5-100ng.d	5	☑	100	98.9	98.9
b QC 100 (QC2).d	5	☑	100	98.5	98.5
b cal 6-250ng.d	6	☑	250	265.1	106.0
b QC 250 (QC 3).d	6	☑	250	256.3	102.5
b cal 7-500ng.d	7	☑	500	517.7	103.5
b cal 8-1000ng.d	8	☑	1000	1016.5	101.7
b QC 1000 (QC4).d	8	☑	1000	901.1	90.1

ISP Forensics
# Calibration Curve Report

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Batch Data Path   C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1b.batch.bin

Last Calib Update   9/6/2018 10:03 AM   **Analyst Name**   ISP TOX

Target Compound   *Mirtazapine*
Internal Standard   *alpha-PVP-d8*

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

$y = 0.018739 * x + 9.919067E\text{-}004$
$R^2 = 0.99189675$
Type:Linear, Origin:Ignore, Weight:$1/x^2$
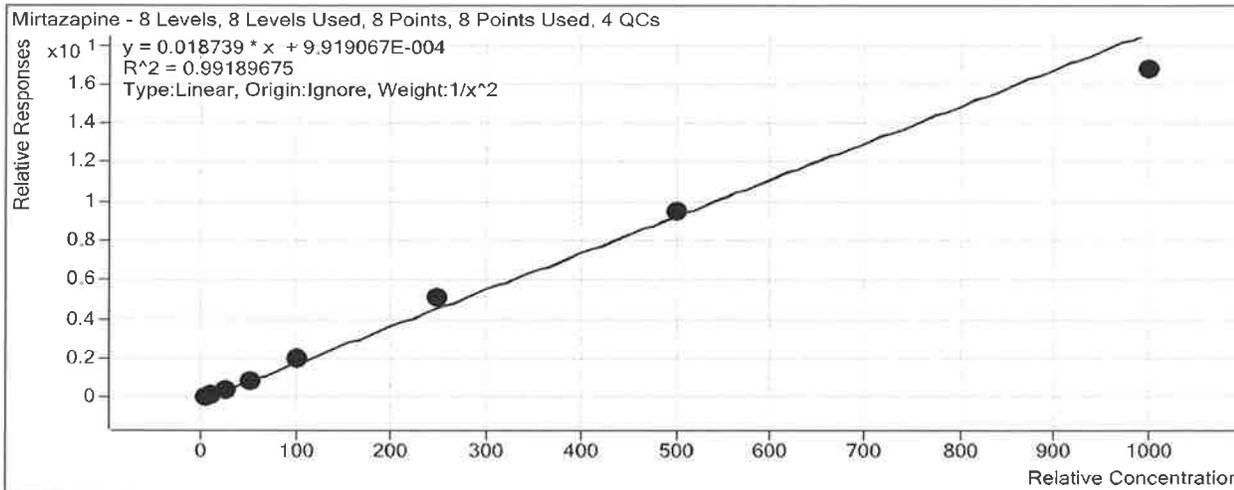
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng.d	1	☑	5	4.9	98.1
b cal 2-10ng.d	2	☑	10	10.7	107.0
b QC 10 (QC1).d	2	☑	10	7.9	79.1
b cal 3-25ng.d	3	☑	25	23.0	92.0
b cal 4-50ng.d	4	☑	50	47.1	94.1
b cal 5-100ng.d	5	☑	100	107.5	107.5
b QC 100 (QC2).d	5	☑	100	98.4	98.4
b cal 6-250ng.d	6	☑	250	275.8	110.3
b QC 250 (QC 3).d	6	☑	250	249.9	100.0
b cal 7-500ng.d	7	☑	500	507.4	101.5
b cal 8-1000ng.d	8	☑	1000	893.4	89.3
b QC 1000 (QC4).d	8	☑	1000	697.8	69.8

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Batch Data Path C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1b.batch.bin

Last Calib Update 9/6/2018 10:03 AM   **Analyst Name**   ISP TOX

Target Compound   *Norbuprenorphine*
Internal Standard   *Norbuprenorphine-D3*

Norbuprenorphine - 8 Levels, 5 Levels Used, 8 Points, 5 Points Used, 4 QCs
y = 0.019612 * x + 0.048455
R^2 = 0.97762786
Type:Linear, Origin:Ignore, Weight:None
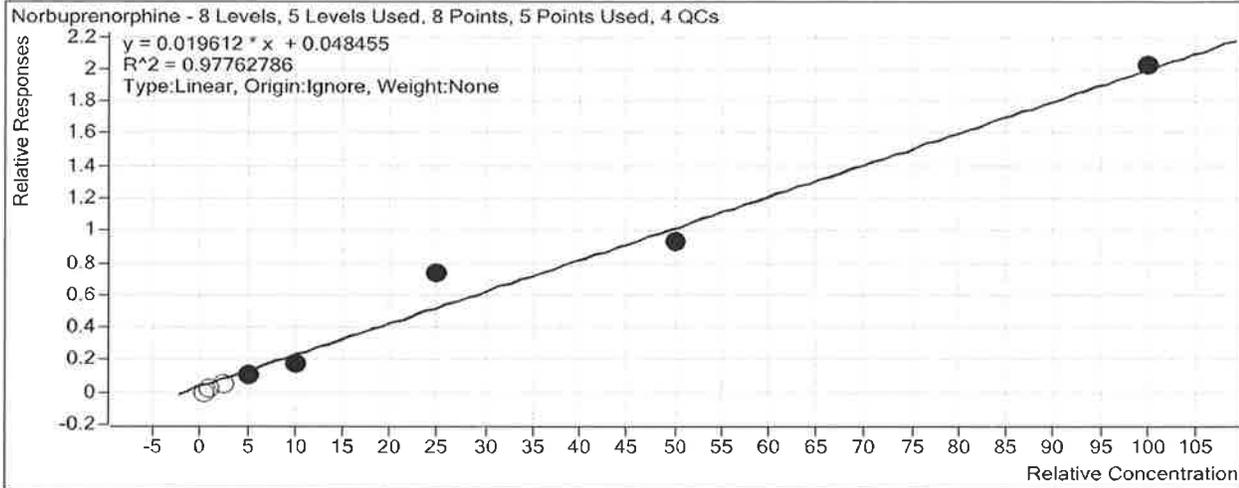
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng.d	1	☐	0.5	0.0	0.0
b cal 2-10ng.d	2	☐	1	0.0	0.0
b QC 10 (QC1).d	2	☐	1	0.0	0.0
b cal 3-25ng.d	3	☐	2.5	0.0	0.0
b cal 4-50ng.d	4	☑	5	3.1	62.3
b cal 5-100ng.d	5	☑	10	6.6	66.1
b QC 100 (QC2).d	5	☑	10	7.4	73.7
b cal 6-250ng.d	6	☑	25	34.8	139.4
b QC 250 (QC 3).d	6	☑	25	21.8	87.2
b cal 7-500ng.d	7	☑	50	44.9	89.8
b cal 8-1000ng.d	8	☑	100	100.5	100.5
b QC 1000 (QC4).d	8	☑	100	104.6	104.6

Did not evaluate. *P* *TS*

Batch Data Path   C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1b.batch.bin

Last Calib Update   9/6/2018 10:03 AM   **Analyst Name**   ISP TOX

Target Compound   *Fentanyl*
Internal Standard   *Fentanyl-D5*

Fentanyl - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 4 QCs

$y = 0.017329 * x - 0.005520$
$R^2 = 0.98715132$
Type:Linear, Origin:Ignore, Weight:$1/x^2$
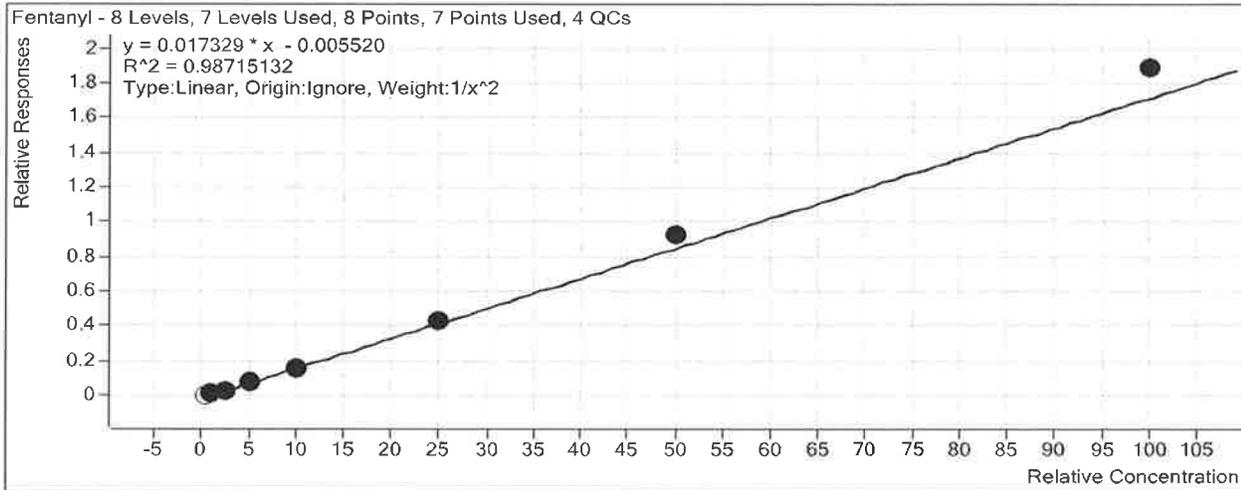
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng.d	1	☐	0.5	0.6	129.6
b cal 2-10ng.d	2	☑	1	1.1	108.1
b QC 10 (QC1).d	2	☐	1	1.0	102.3
b cal 3-25ng.d	3	☑	2.5	2.0	81.2
b cal 4-50ng.d	4	☑	5	4.9	97.5
b cal 5-100ng.d	5	☑	10	9.6	96.3
b QC 100 (QC2).d	5	☑	10	8.1	80.8
b cal 6-250ng.d	6	☑	25	25.2	100.6
b QC 250 (QC 3).d	6	☑	25	23.7	94.7
b cal 7-500ng.d	7	☑	50	53.5	107.0
b cal 8-1000ng.d	8	☑	100	109.2	109.2
b QC 1000 (QC4).d	8	☑	100	110.4	110.4

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Batch Data Path   C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1b.batch.bin

Last Calib Update   9/6/2018 10:03 AM   **Analyst Name**   ISP TOX

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

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

$y = 0.026988 * x - 0.021872$
$R^2 = 0.98781951$
Type:Linear, Origin:Ignore, Weight:$1/x^2$
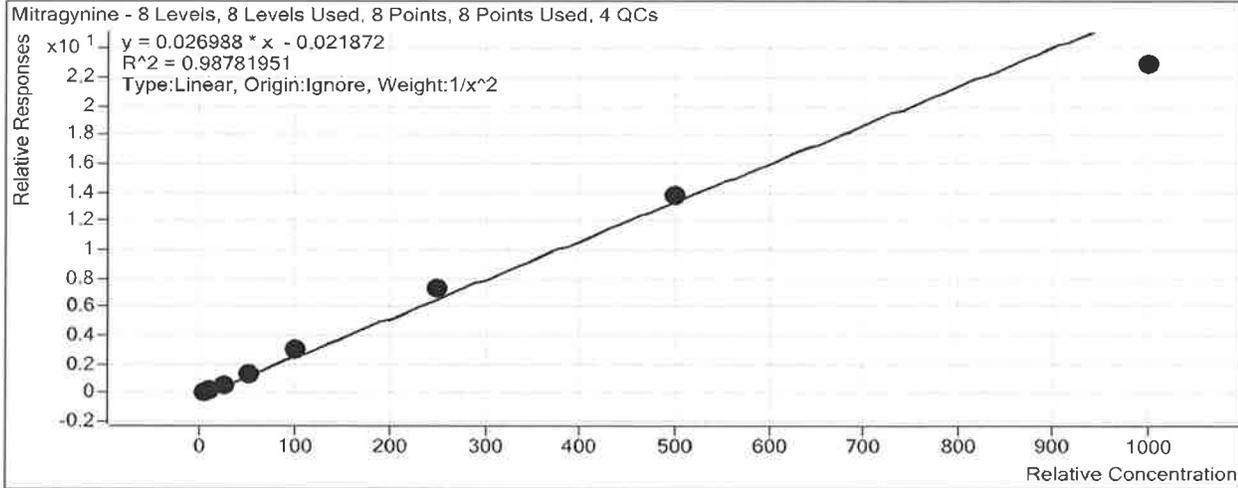
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng.d	1	☑	5	4.9	98.8
b cal 2-10ng.d	2	☑	10	10.6	105.9
b QC 10 (QC1).d	2	☑	10	9.1	90.8
b cal 3-25ng.d	3	☑	25	22.0	88.2
b cal 4-50ng.d	4	☑	50	49.3	98.5
b cal 5-100ng.d	5	☑	100	112.3	112.3
b QC 100 (QC2).d	5	☑	100	87.3	87.3
b cal 6-250ng.d	6	☑	250	273.5	109.4
b QC 250 (QC 3).d	6	☑	250	225.3	90.1
b cal 7-500ng.d	7	☑	500	510.1	102.0
b cal 8-1000ng.d	8	☑	1000	848.9	84.9
b QC 1000 (QC4).d	8	☑	1000	350.8	35.1

**Batch Data Path** C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1b.batch.bin

Last Calib Update 9/6/2018 10:03 AM   **Analyst Name**   ISP TOX

Target Compound   *EDDP*
Internal Standard   *EDDP-D3*

EDDP - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs
$y = 0.022107 * x - 0.051553$
$R^2 = 0.98026223$
Type:Linear, Origin:Ignore, Weight:$1/x^2$
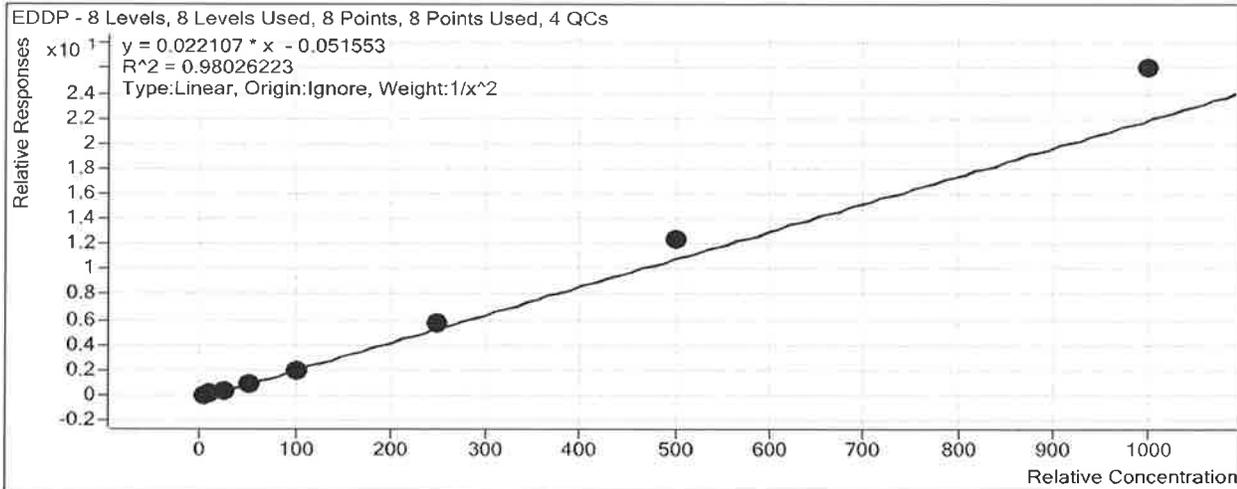
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng.d	1	☑	5	5.4	107.6
b cal 2-10ng.d	2	☑	10	9.4	94.4
b QC 10 (QC1).d	2	☑	10	8.9	88.6
b cal 3-25ng.d	3	☑	25	20.3	81.3
b cal 4-50ng.d	4	☑	50	45.1	90.2
b cal 5-100ng.d	5	☑	100	93.1	93.1
b QC 100 (QC2).d	5	☑	100	89.7	89.7
b cal 6-250ng.d	6	☑	250	258.7	103.5
b QC 250 (QC 3).d	6	☑	250	259.5	103.8
b cal 7-500ng.d	7	☑	500	560.7	112.1
b cal 8-1000ng.d	8	☑	1000	1178.7	117.9
b QC 1000 (QC4).d	8	☑	1000	1150.4	115.0

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Batch Data Path   C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1b.batch.bin

**Last Calib Update**   9/6/2018 10:03 AM   **Analyst Name**   ISP TOX

Target Compound   *Quetiapine*
Internal Standard   *Quetiapine-D8*

Quetiapine - 8 Levels, 6 Levels Used, 8 Points, 6 Points Used, 4 QCs

$y = 0.088096 * x - 0.053961$
$R^2 = 0.99654973$
Type:Linear, Origin:Ignore, Weight:$1/x^2$

(Relative Responses vs Relative Concentration calibration plot)
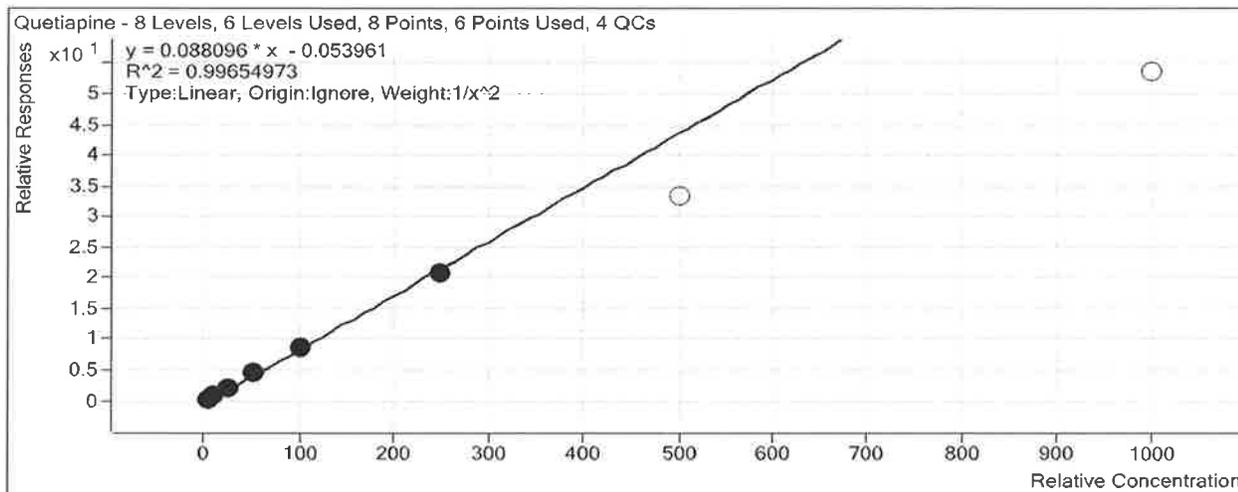
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng.d	1	☑	5	4.9	97.9
b cal 2-10ng.d	2	☑	10	10.5	104.7
b QC 10 (QC1).d	2	☑	10	9.8	98.3
b cal 3-25ng.d	3	☑	25	24.0	96.0
b cal 4-50ng.d	4	☑	50	53.6	107.1
b cal 5-100ng.d	5	☑	100	98.9	98.9
b QC 100 (QC2).d	5	☑	100	106.3	106.3
b cal 6-250ng.d	6	☑	250	238.7	95.5
b QC 250 (QC 3).d	6	☑	250	233.1	93.2
b cal 7-500ng.d	7	☐	500	378.1	75.6
b cal 8-1000ng.d	8	☐	1000	608.2	60.8
b QC 1000 (QC4).d	8	☐	1000	634.3	63.4

ISP Forensics
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Target Compound   *Cyclobenzaprine*
Internal Standard   *Cyclobenzaprine-D3*

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

y = 0.025757 * x - 0.058233
R^2 = 0.99922565
Type:Linear, Origin:Ignore, Weight:1/x
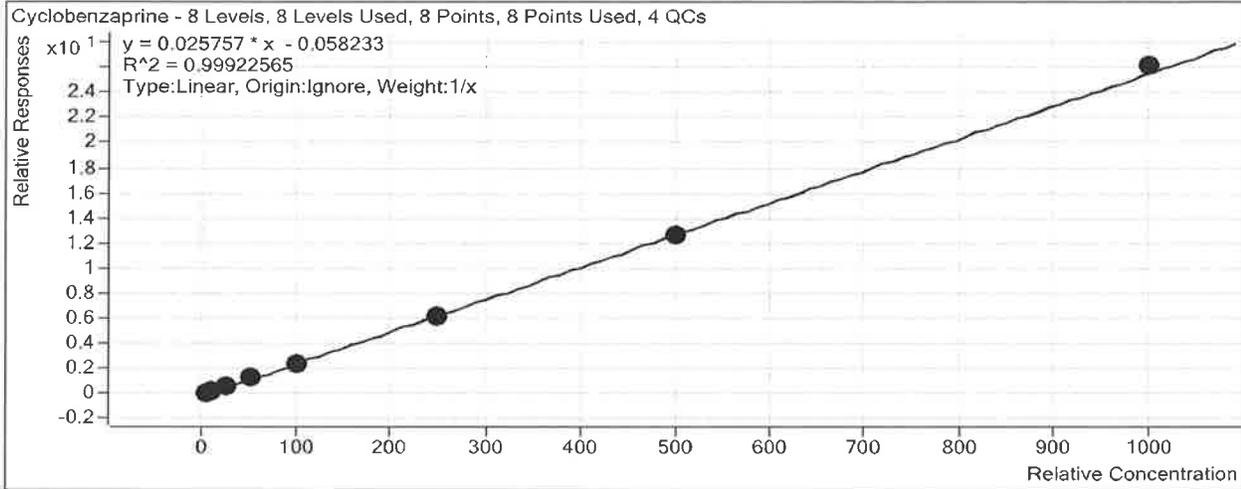
| Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng.d	1	☑	5	5.7	114.3
b cal 2-10ng.d	2	☑	10	10.3	103.3
b QC 10 (QC1).d	2	☑	10	10.7	107.2
b cal 3-25ng.d	3	☑	25	22.1	88.4
b cal 4-50ng.d	4	☑	50	50.9	101.7
b cal 5-100ng.d	5	☑	100	94.3	94.3
b QC 100 (QC2).d	5	☑	100	89.2	89.2
b cal 6-250ng.d	6	☑	250	242.1	96.8
b QC 250 (QC 3).d	6	☑	250	233.5	93.4
b cal 7-500ng.d	7	☑	500	496.8	99.4
b cal 8-1000ng.d	8	☑	1000	1017.7	101.8
b QC 1000 (QC4).d	8	☑	1000	1078.6	107.9

Batch Data Path C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1b.batch.bin

Last Calib Update 9/6/2018 10:03 AM **Analyst Name** ISP TOX

Target Compound *Methadone*
Internal Standard *Methadone-D9*

Methadone - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 4 QCs

$y = 0.026646 * x - 0.019516$
$R^2 = 0.99795539$
Type:Linear, Origin:Ignore, Weight:$1/x^2$
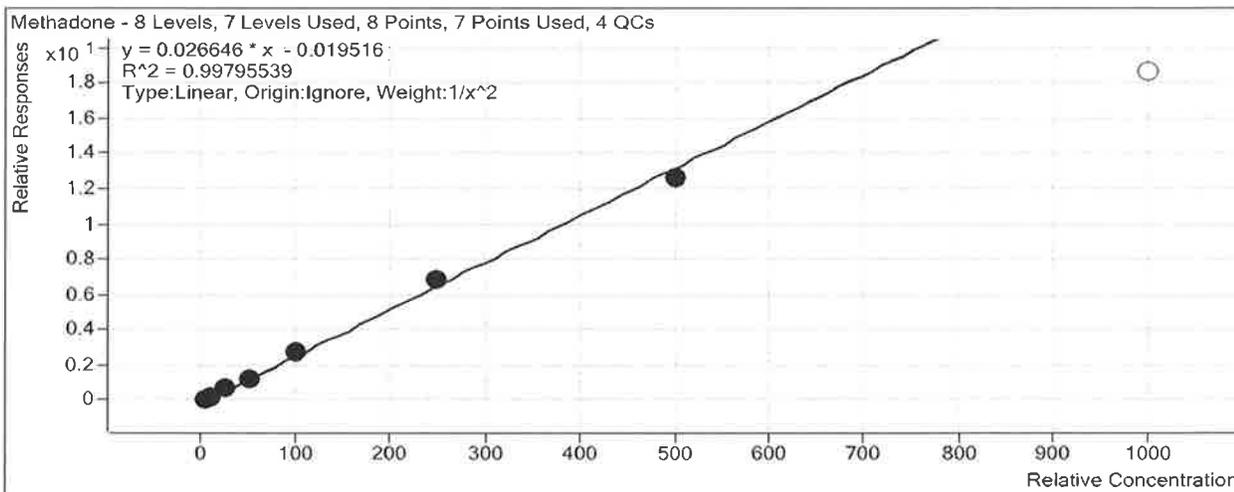
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng.d	1	☑	5	5.1	101.8
b cal 2-10ng.d	2	☑	10	9.6	96.4
b QC 10 (QC1).d	2	☑	10	10.5	105.4
b cal 3-25ng.d	3	☑	25	24.9	99.6
b cal 4-50ng.d	4	☑	50	48.8	97.6
b cal 5-100ng.d	5	☑	100	105.9	105.9
b QC 100 (QC2).d	5	☑	100	100.1	100.1
b cal 6-250ng.d	6	☑	250	258.1	103.2
b QC 250 (QC 3).d	6	☑	250	221.9	88.8
b cal 7-500ng.d	7	☑	500	477.5	95.5
b cal 8-1000ng.d	8	☐	1000	699.9	70.0
b QC 1000 (QC4).d	8	☑	1000	965.5	96.6

ISP Forensics
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Batch Data Path   C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1b.batch.bin

Last Calib Update   9/6/2018 10:03 AM   **Analyst Name**   ISP TOX

Target Compound   *Buprenorphine*
Internal Standard   *Buprenorphine-D4*

Buprenorphine - 8 Levels, 6 Levels Used, 8 Points, 6 Points Used, 4 QCs

$y = 0.028748 * x + 0.007561$
$R^2 = 0.99774673$
Type:Linear, Origin:Ignore, Weight:1/x
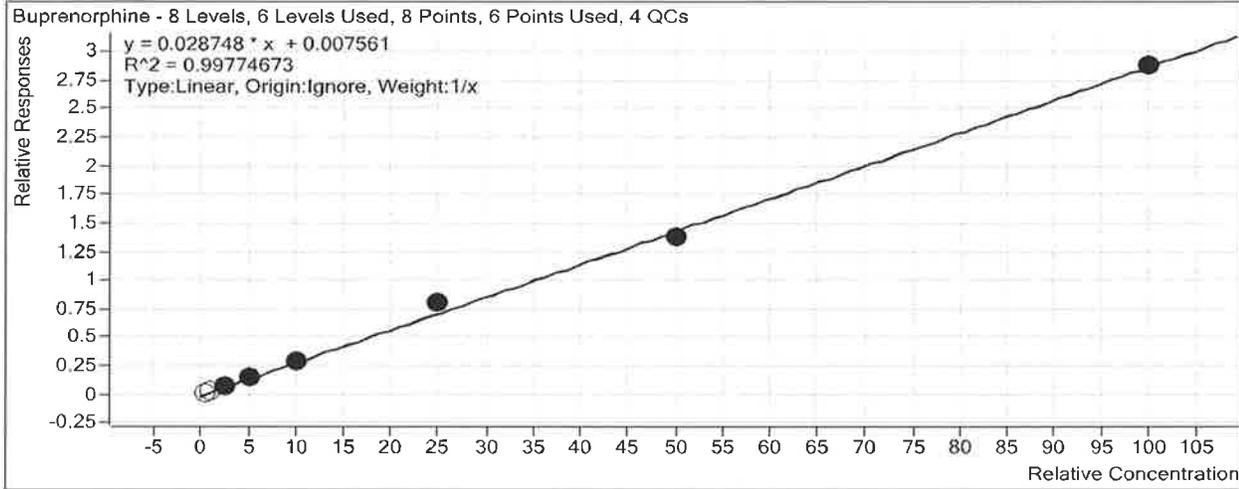
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng.d	1	☐	0.5	0.5	90.7
b cal 2-10ng.d	2	☐	1	0.7	65.1
b QC 10 (QC1).d	2	☐	1	0.5	51.3
b cal 3-25ng.d	3	☑	2.5	2.4	95.8
b cal 4-50ng.d	4	☑	5	4.9	97.6
b cal 5-100ng.d	5	☑	10	10.1	101.4
b QC 100 (QC2).d	5	☑	10	9.4	93.5
b cal 6-250ng.d	6	☑	25	27.4	109.6
b QC 250 (QC 3).d	6	☑	25	26.0	104.1
b cal 7-500ng.d	7	☑	50	47.9	95.8
b cal 8-1000ng.d	8	☑	100	99.8	99.8
b QC 1000 (QC4).d	8	☑	100	87.0	87.0

Did not evaluate. 𝒫 TS

ISP Forensics
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Batch Data Path   C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1b.batch.bin

Last Calib Update   9/6/2018 10:03 AM   **Analyst Name**   ISP TOX

Target Compound   *Fluoxetine*
Internal Standard   *Fluoxetine-D6*

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

$y = 0.021055 * x - 0.009003$
$R^2 = 0.99713346$
Type:Linear, Origin:Ignore, Weight:1/x
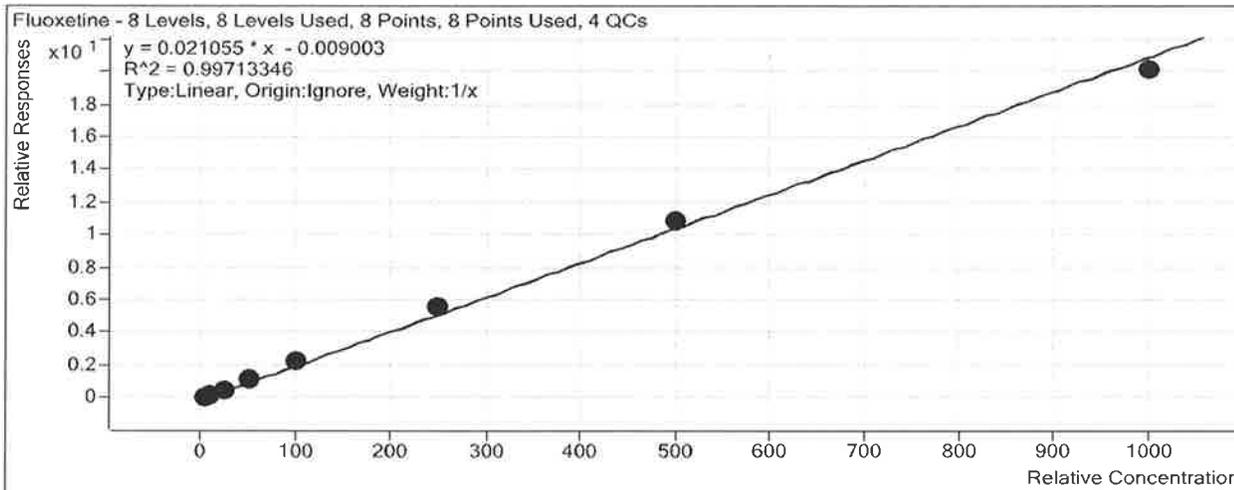
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng.d	1	☑	5	4.3	85.8
b cal 2-10ng.d	2	☑	10	9.7	97.4
b QC 10 (QC1).d	2	☑	10	10.6	105.7
b cal 3-25ng.d	3	☑	25	23.6	94.3
b cal 4-50ng.d	4	☑	50	53.8	107.6
b cal 5-100ng.d	5	☑	100	108.8	108.8
b QC 100 (QC2).d	5	☑	100	107.3	107.3
b cal 6-250ng.d	6	☑	250	268.1	107.2
b QC 250 (QC 3).d	6	☑	250	273.1	109.3
b cal 7-500ng.d	7	☑	500	516.3	103.3
b cal 8-1000ng.d	8	☑	1000	955.4	95.5
b QC 1000 (QC4).d	8	☑	1000	1220.4	122.0

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Batch Data Path	C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1b.batch.bin		
Last Calib Update	9/6/2018 10:03 AM	**Analyst Name**	ISP TOX

Target Compound   *Oxazepam*
Internal Standard   *Oxazepam-D5*

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

$y = 0.023062 * x - 0.066340$
$R^2 = 0.99628490$
Type:Linear, Origin:Ignore, Weight:1/x
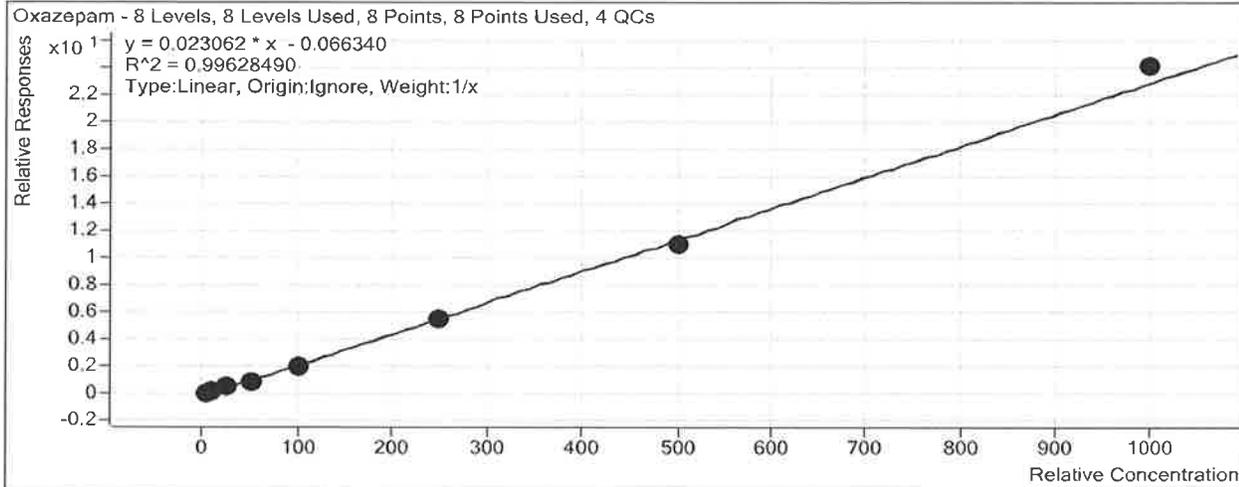
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng.d	1	☑	5	6.2	124.6
b cal 2-10ng.d	2	☑	10	11.2	112.1
b QC 10 (QC1).d	2	☑	10	10.3	102.8
b cal 3-25ng.d	3	☑	25	23.7	94.8
b cal 4-50ng.d	4	☑	50	42.2	84.4
b cal 5-100ng.d	5	☑	100	86.3	86.3
b QC 100 (QC2).d	5	☑	100	92.6	92.6
b cal 6-250ng.d	6	☑	250	241.7	96.7
b QC 250 (QC 3).d	6	☑	250	244.9	98.0
b cal 7-500ng.d	7	☑	500	482.7	96.5
b cal 8-1000ng.d	8	☑	1000	1045.9	104.6
b QC 1000 (QC4).d	8	☑	1000	1122.1	112.2

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Batch Data Path   C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1b.batch.bin

Last Calib Update   9/6/2018 10:03 AM   **Analyst Name**   ISP TOX

Target Compound   *Sertraline*
Internal Standard   *Sertraline-D3*

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

$y = 0.021385 * x - 0.032545$
$R^2 = 0.99416863$
Type:Linear, Origin:Ignore, Weight:1/x^2
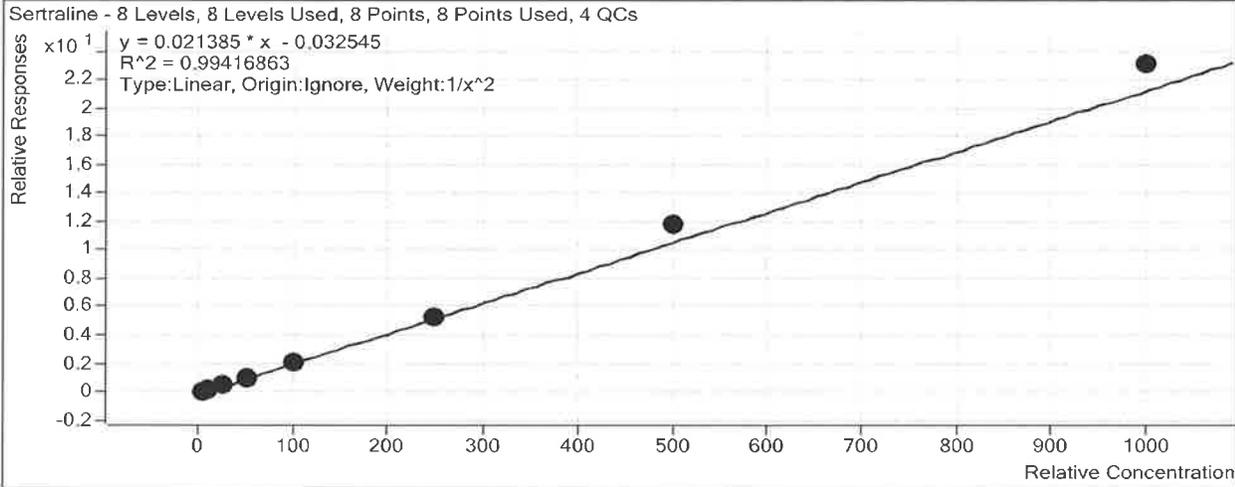
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng.d	1	☑	5	5.2	103.9
b cal 2-10ng.d	2	☑	10	9.7	96.8
b QC 10 (QC1).d	2	☑	10	9.9	99.3
b cal 3-25ng.d	3	☑	25	22.7	90.9
b cal 4-50ng.d	4	☑	50	48.0	96.0
b cal 5-100ng.d	5	☑	100	96.3	96.3
b QC 100 (QC2).d	5	☑	100	89.3	89.3
b cal 6-250ng.d	6	☑	250	244.9	97.9
b QC 250 (QC 3).d	6	☑	250	232.6	93.0
b cal 7-500ng.d	7	☑	500	550.6	110.1
b cal 8-1000ng.d	8	☑	1000	1080.4	108.0
b QC 1000 (QC4).d	8	☑	1000	1077.0	107.7

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Batch Data Path   C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1b.batch.bin

**Last Calib Update**   9/6/2018 10:03 AM   **Analyst Name**   ISP TOX

Target Compound   *Temazepam*
Internal Standard   *Temazepam-D5*

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

$y = 0.020669 * x - 0.010464$
$R^2 = 0.99721511$
Type:Linear, Origin:Ignore, Weight:1/x
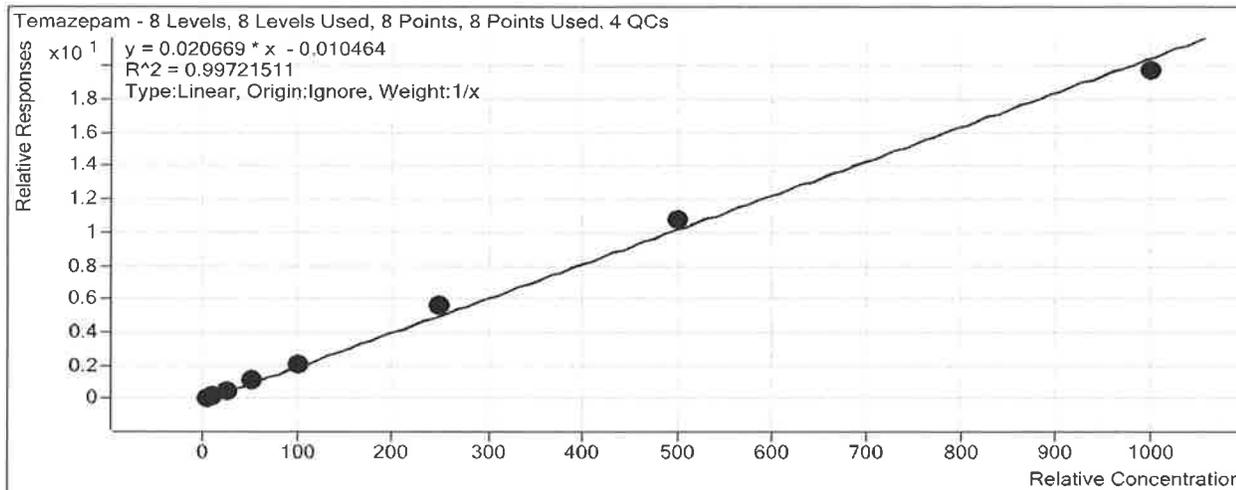
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng.d	1	☑	5	4.5	90.2
b cal 2-10ng.d	2	☑	10	9.7	97.3
b QC 10 (QC1).d	2	☑	10	9.7	96.8
b cal 3-25ng.d	3	☑	25	24.4	97.8
b cal 4-50ng.d	4	☑	50	53.5	107.0
b cal 5-100ng.d	5	☑	100	99.6	99.6
b QC 100 (QC2).d	5	☑	100	101.3	101.3
b cal 6-250ng.d	6	☑	250	270.0	108.0
b QC 250 (QC 3).d	6	☑	250	266.1	106.4
b cal 7-500ng.d	7	☑	500	522.8	104.6
b cal 8-1000ng.d	8	☑	1000	955.4	95.5
b QC 1000 (QC4).d	8	☑	1000	850.1	85.0

TS

Batch Data Path　　　C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1b.batch.bin

Last Calib Update　　　9/6/2018 10:03 AM　　　**Analyst Name**　　　ISP TOX

Target Compound　　　*Nordiazepam*
Internal Standard　　　*Nordiazepam-D5*

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

$y = 0.041258 * x - 0.057993$
$R^2 = 0.99118186$
Type:Linear, Origin:Ignore, Weight:$1/x^2$
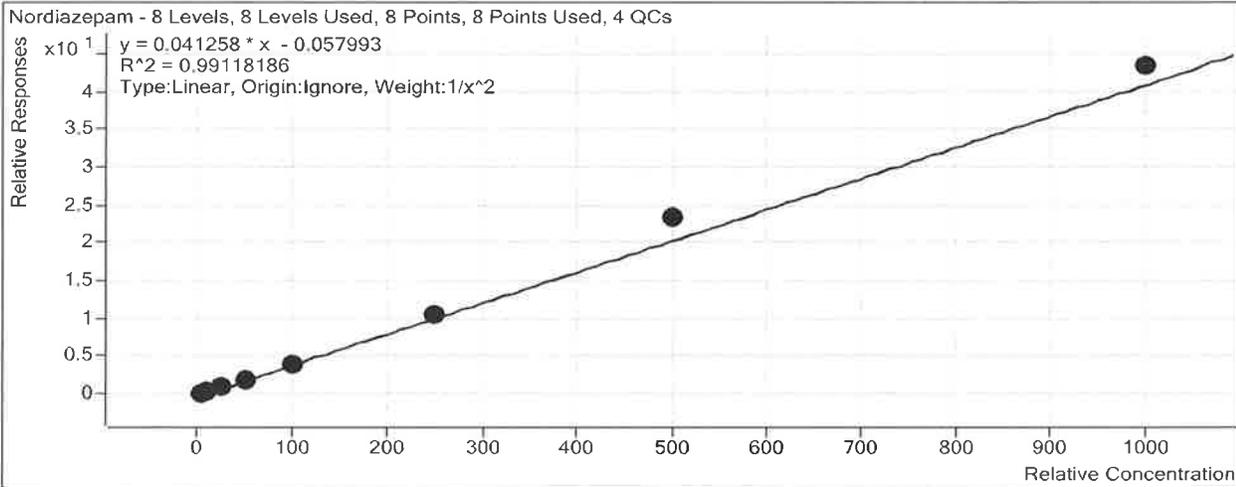
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng.d	1	☑	5	5.3	105.4
b cal 2-10ng.d	2	☑	10	9.5	94.7
b QC 10 (QC1).d	2	☑	10	9.6	96.3
b cal 3-25ng.d	3	☑	25	22.4	89.6
b cal 4-50ng.d	4	☑	50	46.4	92.8
b cal 5-100ng.d	5	☑	100	95.4	95.4
b QC 100 (QC2).d	5	☑	100	97.4	97.4
b cal 6-250ng.d	6	☑	250	257.3	102.9
b QC 250 (QC 3).d	6	☑	250	256.5	102.6
b cal 7-500ng.d	7	☑	500	569.5	113.9
b cal 8-1000ng.d	8	☑	1000	1052.5	105.3
b QC 1000 (QC4).d	8	☐	1000	1021.8	102.2

ISP Forensics
Calibration Curve Report

TS

Target Compound   *Diazepam*
Internal Standard   *Diazepam-D5*

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

$y = 0.027030 * x - 0.061441$
$R^2 = 0.99931248$
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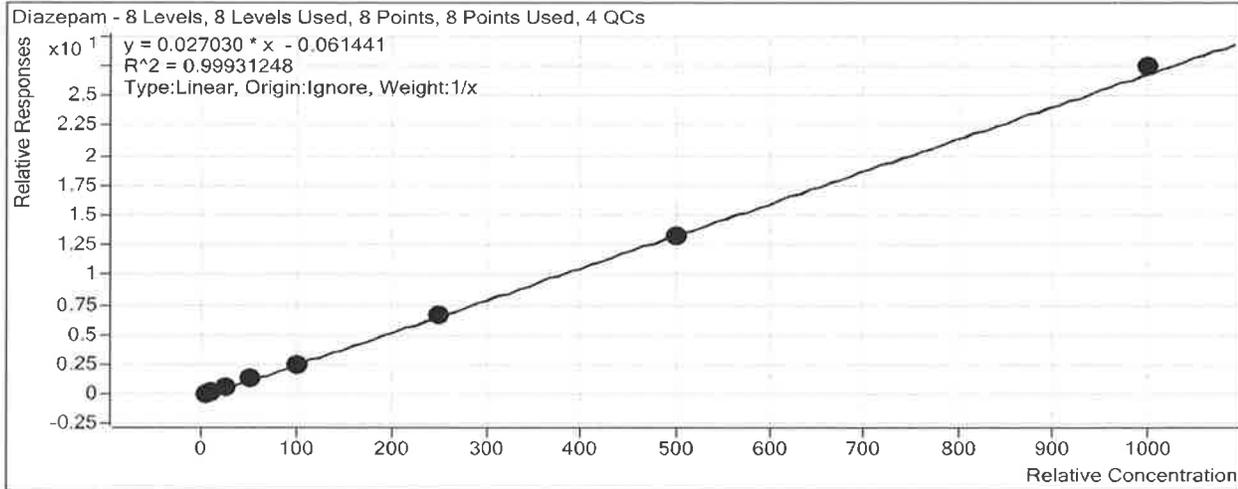
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng.d	1	☑	5	5.9	118.4
b cal 2-10ng.d	2	☑	10	9.9	98.9
b QC 10 (QC1).d	2	☑	10	10.3	102.8
b cal 3-25ng.d	3	☑	25	22.9	91.7
b cal 4-50ng.d	4	☑	50	48.8	97.7
b cal 5-100ng.d	5	☑	100	93.1	93.1
b QC 100 (QC2).d	5	☑	100	92.7	92.7
b cal 6-250ng.d	6	☑	250	249.7	99.9
b QC 250 (QC 3).d	6	☑	250	247.7	99.1
b cal 7-500ng.d	7	☑	500	493.0	98.6
b cal 8-1000ng.d	8	☑	1000	1016.6	101.7
b QC 1000 (QC4).d	8	☑	1000	940.2	94.0

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

TS

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1b.batch.bin		
Analysis Time	9/6/2018 10:03 AM	**Analyst Name**	ISPUser
Report Time	9/6/2018 2:44 PM	**Reporter Name**	ISPUser
Last Calib Update	9/6/2018 10:03 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-09-05 13:41	**Data File**	b cal 1-5ng.d
Sample Type	Calibration	**Sample Name**	b cal 1-5ng.d
Dilution	1	**Acq Method**	MD Quant Panel 1b 7-11-18.m
Position	P1-H12	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28

Sample Chromatogram

+ TIC MRM (** -> **) b cal 1-5ng.d
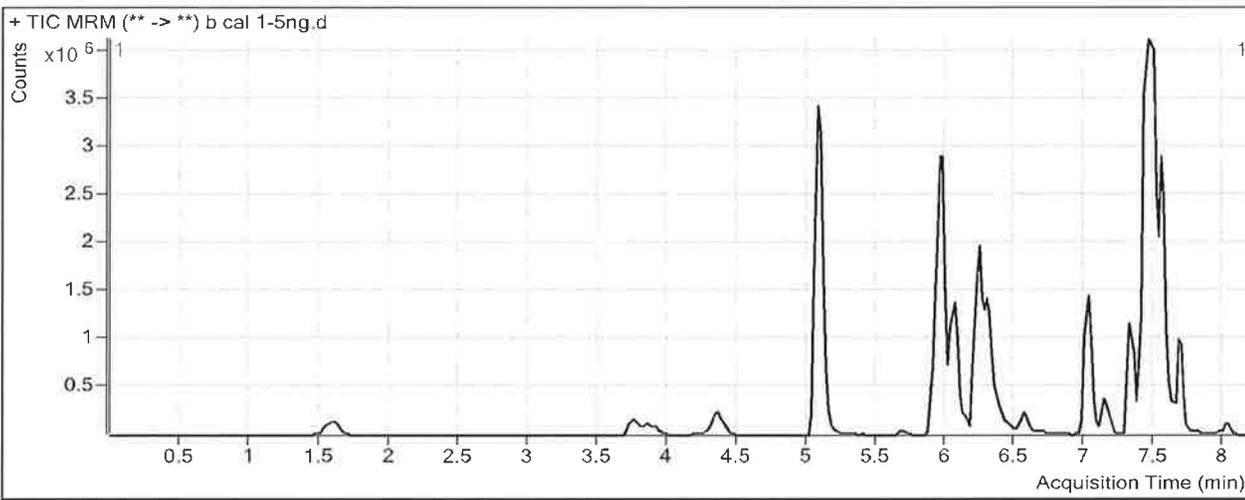
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Oxymorphone	Oxymorphone-D3	1.588	103797	968287	0.1072	5.3102
Dihydrocodeine	Dihydrocodeine-D6	3.910	102576	1382182	0.0742	5.7110
Noroxycodone	Noroxycodone-D3	4.391	156792	1363335	0.1150	5.2925
O-desmethyl-tramadol	O-desmethyl-tramadol-D6	5.100	1284169	14642216	0.0877	5.0200
Benzoylecgonine	Benzoylecgonine-d8	5.731	6724	133048	0.0505	66.9089
Ketamine	Ketamine-D4	5.942	659218	6762757	0.0975	5.0814
Norfentanyl	Norfentanyl-D5	6.004	50494	7989489	0.0063	0.8274
Cocaine	Cocaine-d3	6.232	245467	7855994	0.0312	5.7035
alpha-PVP	alpha-PVP-d8	6.328	372043	4983937	0.0746	5.1741
Mirtazapine	alpha-PVP-d8	6.563	463108	4983937	0.0929	4.9057
Norbuprenorphine	Norbuprenorphine-D3	6.954	62	77738	0.0008	0.0000
Fentanyl	Fentanyl-D5	7.017	28712	5030944	0.0057	0.6479
Mitragynine	EDDP-D3	7.115	118135	1059533	0.1115	4.9418
EDDP	EDDP-D3	7.149	71376	1059533	0.0674	5.3792
Quetiapine	Quetiapine-D8	7.338	906709	2403431	0.3773	4.8949
Cyclobenzaprine	Cyclobenzaprine-D3	7.413	248435	2793918	0.0889	5.7132
Methadone	Methadone-D9	7.441	1029652	8865806	0.1161	5.0909
Buprenorphine	Buprenorphine-D4	7.456	22957	1114565	0.0206	0.4535
Fluoxetine	Fluoxetine-D6	7.482	762354	9369349	0.0814	4.2921

TS
P

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Oxazepam	Oxazepam-D5	7.510	27492	355358	0.0774	6.2311
Sertraline	Sertraline-D3	7.542	312186	3974820	0.0785	5.1947
Temazepam	Temazepam-D5	7.564	338162	4086732	0.0827	4.5096
Nordiazepam	Nordiazepam-D5	7.635	98317	616262	0.1595	5.2724
Diazepam	Diazepam-D5	7.692	233015	2362804	0.0986	5.9215

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

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1b.batch.bin
Analysis Time	9/6/2018 10:03 AM	**Analyst Name** ISPUser
Report Time	9/6/2018 2:44 PM	**Reporter Name** ISPUser
Last Calib Update	9/6/2018 10:03 AM	**Batch State** Processed

Analysis Info

Acq Time	2018-09-05 14:12	**Data File**	b cal 2-10ng.d
Sample Type	Calibration	**Sample Name**	b cal 2-10ng.d
Dilution	1	**Acq Method**	MD Quant Panel 1b 7-11-18.m
Position	P1-G12	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28

Sample Chromatogram

+ TIC MRM (** -> **) b cal 2-10ng.d
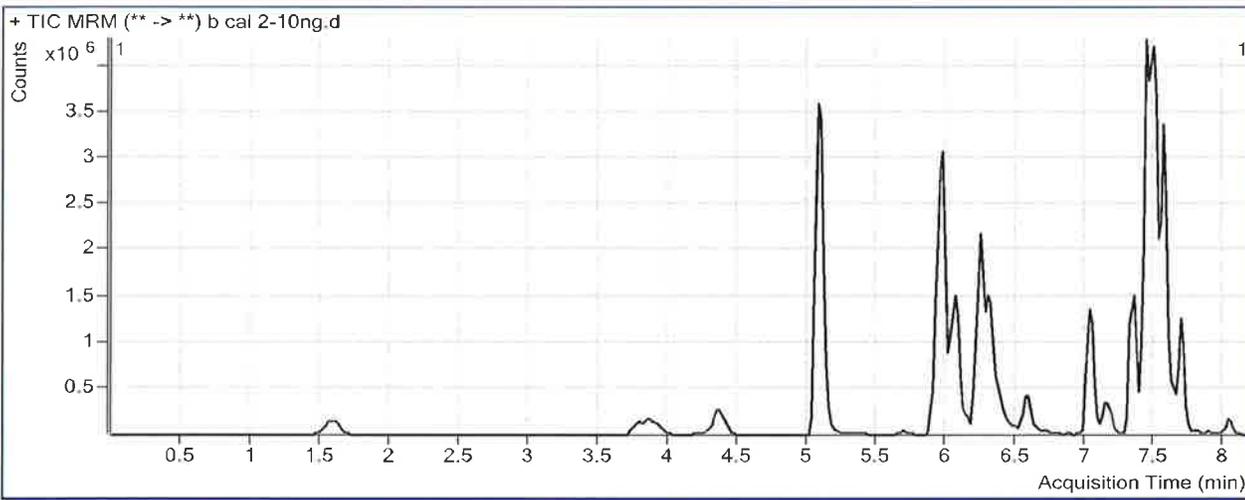
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Oxymorphone	Oxymorphone-D3	1.608	213738	930441	0.2297	9.2860
Dihydrocodeine	Dihydrocodeine-D6	3.910	211797	1362691	0.1554	9.6509
Noroxycodone	Noroxycodone-D3	4.391	334564	1326600	0.2522	9.3841
O-desmethyl-tramadol	O-desmethyl-tramadol-D6	5.100	2663197	14234594	0.1871	9.9801
Benzoylecgonine	Benzoylecgonine-d8	5.731	18223	120880	0.1508	69.6229
Ketamine	Ketamine-D4	5.962	1374909	6648169	0.2068	9.7319
Norfentanyl	Norfentanyl-D5	6.004	119293	7640245	0.0156	1.2522
Cocaine	Cocaine-d3	6.232	490083	7296822	0.0672	9.9994
alpha-PVP	alpha-PVP-d8	6.328	755069	4831333	0.1563	9.6777
Mirtazapine	alpha-PVP-d8	6.583	973888	4831333	0.2016	10.7042
Norbuprenorphine	Norbuprenorphine-D3	6.974	1687	74182	0.0227	0.0000
Fentanyl	Fentanyl-D5	7.037	61860	4679772	0.0132	1.0814
Mitragynine	EDDP-D3	7.115	247305	937360	0.2638	10.5862
EDDP	EDDP-D3	7.169	147321	937360	0.1572	9.4413
Quetiapine	Quetiapine-D8	7.338	1979416	2279665	0.8683	10.4688
Cyclobenzaprine	Cyclobenzaprine-D3	7.433	506040	2433703	0.2079	10.3337
Methadone	Methadone-D9	7.461	1966970	8289370	0.2373	9.6376
Buprenorphine	Buprenorphine-D4	7.456	26122	994442	0.0263	0.6508
Fluoxetine	Fluoxetine-D6	7.502	1596284	8143217	0.1960	9.7377

TS P
b cal 2

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Oxazepam	Oxazepam-D5	7.529	67239	349800	0.1922	11.2113
Sertraline	Sertraline-D3	7.542	589417	3377365	0.1745	9.6829
Temazepam	Temazepam-D5	7.584	874402	4585116	0.1907	9.7327
Nordiazepam	Nordiazepam-D5	7.655	249321	748965	0.3329	9.4740
Diazepam	Diazepam-D5	7.692	481403	2337138	0.2060	9.8934

TS

Batch Data Path   C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1b.batch.bin
Analysis Time   9/6/2018 10:03 AM   **Analyst Name**   ISPUser
Report Time   9/6/2018 2:44 PM   **Reporter Name**   ISPUser
Last Calib Update   9/6/2018 10:03 AM   **Batch State**   Processed

Analysis Info

Acq Time   2018-09-05 14:44   **Data File**   b cal 3-25ng.d
Sample Type   Calibration   **Sample Name**   b cal 3-25ng.d
Dilution   1   **Acq Method**   MD Quant Panel 1b 7-11-18.m
Position   P1-F12   **Sample Info**
Inj Vol   -1   **Comment**   AM 28

Sample Chromatogram
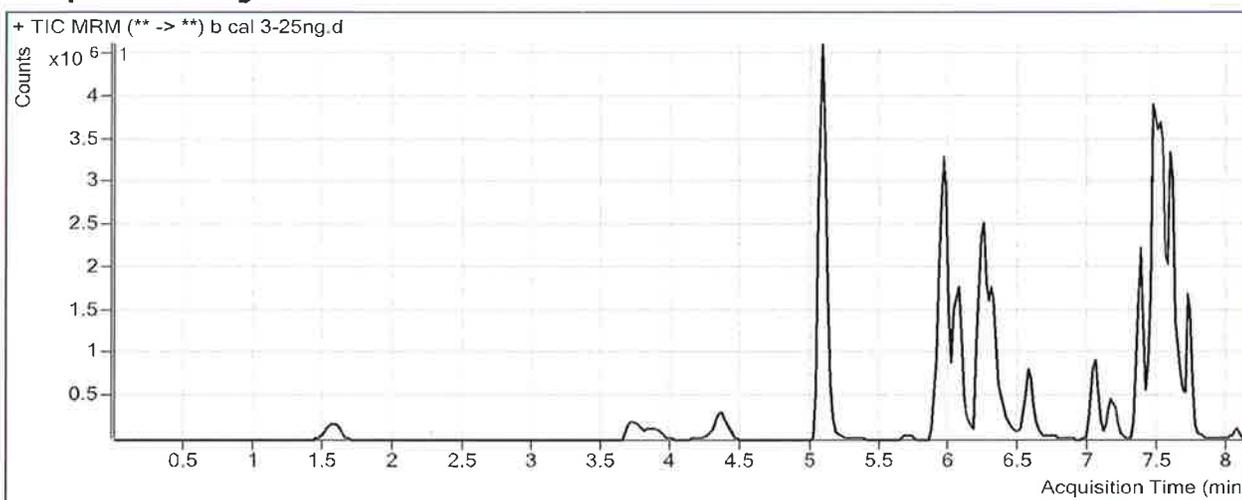
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Oxymorphone	Oxymorphone-D3	1.588	539075	867666	0.6213	21.9924
Dihydrocodeine	Dihydrocodeine-D6	3.750	500676	1189832	0.4208	22.5250
Noroxycodone	Noroxycodone-D3	4.371	834713	1228975	0.6792	22.1190
O-desmethyl-tramadol	O-desmethyl-tramadol-D6	5.072	6191554	13281061	0.4662	23.9087
Benzoylecgonine	Benzoylecgonine-d8	5.711	38659	116231	0.3326	74.5480
Ketamine	Ketamine-D4	5.942	3268183	5985021	0.5461	24.1619
Norfentanyl	Norfentanyl-D5	6.004	306881	7412237	0.0414	2.4311
Cocaine	Cocaine-d3	6.232	1210570	7118145	0.1701	22.3070
alpha-PVP	alpha-PVP-d8	6.328	1756407	4486081	0.3915	22.6551
Mirtazapine	alpha-PVP-d8	6.563	1938751	4486081	0.4322	23.0098
Norbuprenorphine	Norbuprenorphine-D3	6.974	2096	45982	0.0456	0.0000
Fentanyl	Fentanyl-D5	7.037	98660	3327882	0.0296	2.0294
Mitragynine	EDDP-D3	7.136	473483	826271	0.5730	22.0432
EDDP	EDDP-D3	7.189	328629	826271	0.3977	20.3229
Quetiapine	Quetiapine-D8	7.358	3936495	1911045	2.0599	23.9947
Cyclobenzaprine	Cyclobenzaprine-D3	7.453	889390	1740846	0.5109	22.0963
Methadone	Methadone-D9	7.481	3732470	5796105	0.6440	24.8997
Buprenorphine	Buprenorphine-D4	7.496	55340	724535	0.0764	2.3939
Fluoxetine	Fluoxetine-D6	7.521	2755996	5654008	0.4874	23.5783

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Oxazepam	Oxazepam-D5	7.549	144063	300131	0.4800	23.6896
Sertraline	Sertraline-D3	7.583	1092378	2409541	0.4534	22.7220
Temazepam	Temazepam-D5	7.604	1972242	3986360	0.4947	24.4426
Nordiazepam	Nordiazepam-D5	7.675	570569	659031	0.8658	22.3897
Diazepam	Diazepam-D5	7.712	1178698	2111556	0.5582	22.9246

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

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1b.batch.bin		
Analysis Time	9/6/2018 10:03 AM	**Analyst Name**	ISPUser
Report Time	9/6/2018 2:44 PM	**Reporter Name**	ISPUser
Last Calib Update	9/6/2018 10:03 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-09-05 15:15	**Data File**	b cal 4-50ng.d
Sample Type	Calibration	**Sample Name**	b cal 4-50ng.d
Dilution	1	**Acq Method**	MD Quant Panel 1b 7-11-18.m
Position	P1-E12	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28

Sample Chromatogram

+ TIC MRM (** -> **) b cal 4-50ng.d
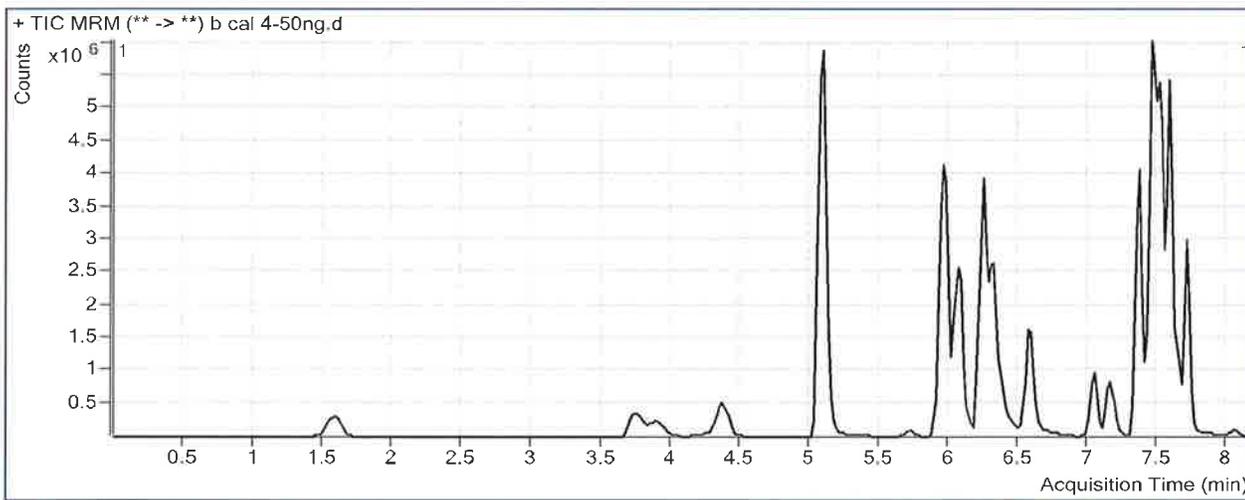
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Oxymorphone	Oxymorphone-D3	1.588	1221452	852948	1.4320	48.3005
Dihydrocodeine	Dihydrocodeine-D6	3.750	1193614	1261691	0.9460	48.0068
Noroxycodone	Noroxycodone-D3	4.391	1876860	1208501	1.5530	48.1810
O-desmethyl-tramadol	O-desmethyl-tramadol-D6	5.100	13794800	13238464	1.0420	52.6455
Benzoylecgonine	Benzoylecgonine-d8	5.711	95660	112529	0.8501	88.5628
Ketamine	Ketamine-D4	5.942	7264492	6088041	1.1932	51.6897
Norfentanyl	Norfentanyl-D5	6.004	641485	7251850	0.0885	4.5821
Cocaine	Cocaine-d3	6.232	2630354	6901246	0.3811	47.5519
alpha-PVP	alpha-PVP-d8	6.328	3978910	4533428	0.8777	49.4749
Mirtazapine	alpha-PVP-d8	6.563	4001855	4533428	0.8827	47.0547
Norbuprenorphine	Norbuprenorphine-D3	6.954	5278	48184	0.1095	3.1146
Fentanyl	Fentanyl-D5	7.037	233597	2957854	0.0790	4.8761
Mitragynine	EDDP-D3	7.136	1055257	807136	1.3074	49.2539
EDDP	EDDP-D3	7.169	762911	807136	0.9452	45.0879
Quetiapine	Quetiapine-D8	7.358	8473325	1816859	4.6637	53.5519
Cyclobenzaprine	Cyclobenzaprine-D3	7.433	2082650	1663991	1.2516	50.8539
Methadone	Methadone-D9	7.461	7409064	5785129	1.2807	48.7961
Buprenorphine	Buprenorphine-D4	7.476	113539	767746	0.1479	4.8813
Fluoxetine	Fluoxetine-D6	7.521	6253210	5564661	1.1237	53.7987

TS

b cal 4

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Oxazepam	Oxazepam-D5	7.549	311658	343610	0.9070	42.2050
Sertraline	Sertraline-D3	7.563	2251110	2264963	0.9939	47.9986
Temazepam	Temazepam-D5	7.584	4380718	4000858	1.0949	53.4806
Nordiazepam	Nordiazepam-D5	7.655	1258185	678102	1.8555	46.3772
Diazepam	Diazepam-D5	7.712	2764716	2196321	1.2588	48.8431

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

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1b.batch.bin
Analysis Time	9/6/2018 10:03 AM
Report Time	9/6/2018 2:45 PM
Last Calib Update	9/6/2018 10:03 AM

		Analyst Name	ISPUser
		Reporter Name	ISPUser
		Batch State	Processed

Analysis Info

Acq Time	2018-09-05 15:47	**Data File**	b cal 5-100ng.d
Sample Type	Calibration	**Sample Name**	b cal 5-100ng.d
Dilution	1	**Acq Method**	MD Quant Panel 1b 7-11-18.m
Position	P1-D12	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28

Sample Chromatogram

+ TIC MRM (** -> **) b cal 5-100ng.d
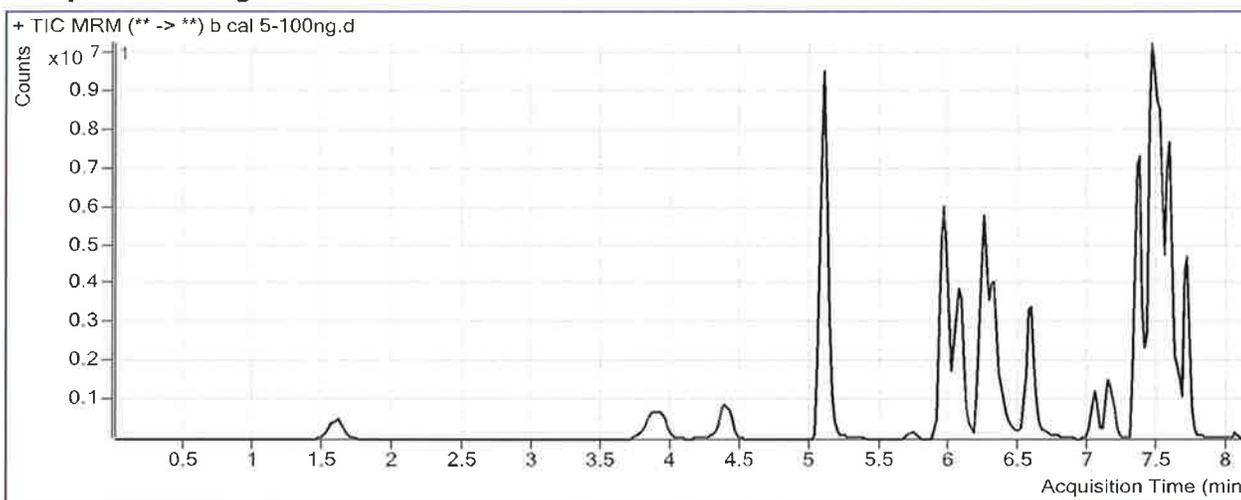
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Oxymorphone	Oxymorphone-D3	1.608	2549673	862018	2.9578	97.8106
Dihydrocodeine	Dihydrocodeine-D6	3.910	2489432	1260992	1.9742	97.8860
Noroxycodone	Noroxycodone-D3	4.391	3677167	1190012	3.0900	94.0201
O-desmethyl-tramadol	O-desmethyl-tramadol-D6	5.100	27021015	13281099	2.0345	102.1775
Benzoylecgonine	Benzoylecgonine-d8	5.711	226735	114698	1.9768	119.0768
Ketamine	Ketamine-D4	5.962	14024558	6056329	2.3157	99.4331
Norfentanyl	Norfentanyl-D5	6.004	1259484	6906490	0.1824	8.8747
Cocaine	Cocaine-d3	6.232	5267771	6464987	0.8148	99.4202
alpha-PVP	alpha-PVP-d8	6.328	7467735	4209179	1.7742	98.9304
Mirtazapine	alpha-PVP-d8	6.583	8486198	4209179	2.0161	107.5371
Norbuprenorphine	Norbuprenorphine-D3	6.974	8033	45091	0.1782	6.6132
Fentanyl	Fentanyl-D5	7.037	523407	3242780	0.1614	9.6331
Mitragynine	EDDP-D3	7.136	2313392	768704	3.0095	112.3205
EDDP	EDDP-D3	7.169	1542019	768704	2.0060	93.0721
Quetiapine	Quetiapine-D8	7.358	16124323	1863031	8.6549	98.8568
Cyclobenzaprine	Cyclobenzaprine-D3	7.433	4285457	1807167	2.3714	94.3287
Methadone	Methadone-D9	7.461	17029514	6077449	2.8021	105.8918
Buprenorphine	Buprenorphine-D4	7.476	224788	751643	0.2991	10.1400
Fluoxetine	Fluoxetine-D6	7.502	13066189	5723935	2.2827	108.8443

TS

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Oxazepam	Oxazepam-D5	7.529	578079	300577	1.9232	86.2687
Sertraline	Sertraline-D3	7.563	4907738	2421835	2.0265	96.2845
Temazepam	Temazepam-D5	7.584	8011340	3909456	2.0492	99.6493
Nordiazepam	Nordiazepam-D5	7.655	2256130	581641	3.8789	95.4207
Diazepam	Diazepam-D5	7.712	5264576	2144363	2.4551	93.1006

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1b.batch.bin		
Analysis Time	9/6/2018 10:03 AM	**Analyst Name**	ISPUser
Report Time	9/6/2018 2:45 PM	**Reporter Name**	ISPUser
Last Calib Update	9/6/2018 10:03 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-09-05 16:18	**Data File**	b cal 6-250ng.d
Sample Type	Calibration	**Sample Name**	b cal 6-250ng.d
Dilution	1	**Acq Method**	MD Quant Panel 1b 7-11-18.m
Position	P1-C12	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28

Sample Chromatogram
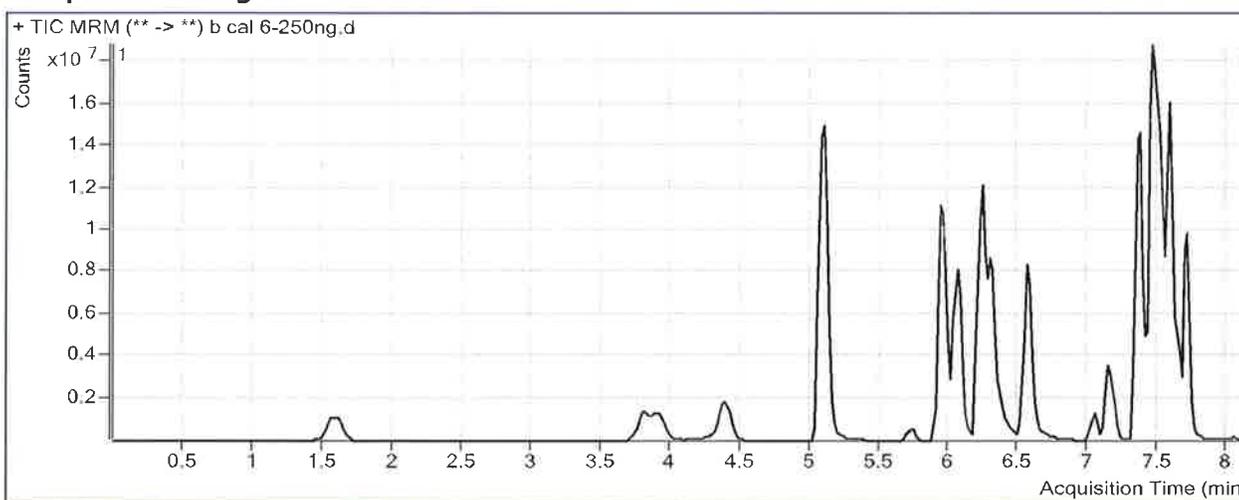
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Oxymorphone	Oxymorphone-D3	1.588	6329354	783966	8.0735	263.8124
Dihydrocodeine	Dihydrocodeine-D6	3.810	6394618	1191633	5.3663	262.4488
Noroxycodone	Noroxycodone-D3	4.391	8944362	1038963	8.6089	258.6172
O-desmethyl-tramadol	O-desmethyl-tramadol-D6	5.100	59889738	12396833	4.8311	241.7374
Benzoylecgonine	Benzoylecgonine-d8	5.711	658889	108788	6.0566	229.5685
Ketamine	Ketamine-D4	5.942	36096097	5827783	6.1938	264.3889
Norfentanyl	Norfentanyl-D5	6.004	3089414	6094981	0.5069	23.7092
Cocaine	Cocaine-d3	6.232	12868907	6241969	2.0617	248.5473
alpha-PVP	alpha-PVP-d8	6.328	17809628	3720682	4.7867	265.1207
Mirtazapine	alpha-PVP-d8	6.563	19235621	3720682	5.1699	275.8397
Norbuprenorphine	Norbuprenorphine-D3	6.974	24251	33140	0.7318	34.8416
Fentanyl	Fentanyl-D5	7.037	1206269	2803361	0.4303	25.1501
Mitragynine	EDDP-D3	7.136	5572932	757267	7.3593	273.4937
EDDP	EDDP-D3	7.169	4291134	757267	5.6666	258.6575
Quetiapine	Quetiapine-D8	7.358	34004760	1621326	20.9734	238.6882
Cyclobenzaprine	Cyclobenzaprine-D3	7.433	9802946	1586967	6.1772	242.0877
Methadone	Methadone-D9	7.461	35533659	5182047	6.8571	258.0714
Buprenorphine	Buprenorphine-D4	7.476	490835	617040	0.7955	27.4077
Fluoxetine	Fluoxetine-D6	7.502	26092123	4630285	5.6351	268.0631

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Oxazepam	Oxazepam-D5	7.529	1800228	326823	5.5083	241.7176
Sertraline	Sertraline-D3	7.563	9965832	1915044	5.2040	244.8740
Temazepam	Temazepam-D5	7.584	22494109	4038248	5.5703	270.0004
Nordiazepam	Nordiazepam-D5	7.655	6965970	659726	10.5589	257.3268
Diazepam	Diazepam-D5	7.712	12332430	1843831	6.6885	249.7187

TS

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1b.batch.bin
Analysis Time	9/6/2018 10:03 AM
Report Time	9/6/2018 2:45 PM
Last Calib Update	9/6/2018 10:03 AM

Analyst Name	ISPUser
Reporter Name	ISPUser
Batch State	Processed

Analysis Info

Acq Time	2018-09-05 16:50	**Data File**	b cal 7-500ng.d
Sample Type	Calibration	**Sample Name**	b cal 7-500ng.d
Dilution	1	**Acq Method**	MD Quant Panel 1b 7-11-18.m
Position	P1-B12	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28

Sample Chromatogram

+ TIC MRM (** -> **) b cal 7-500ng.d
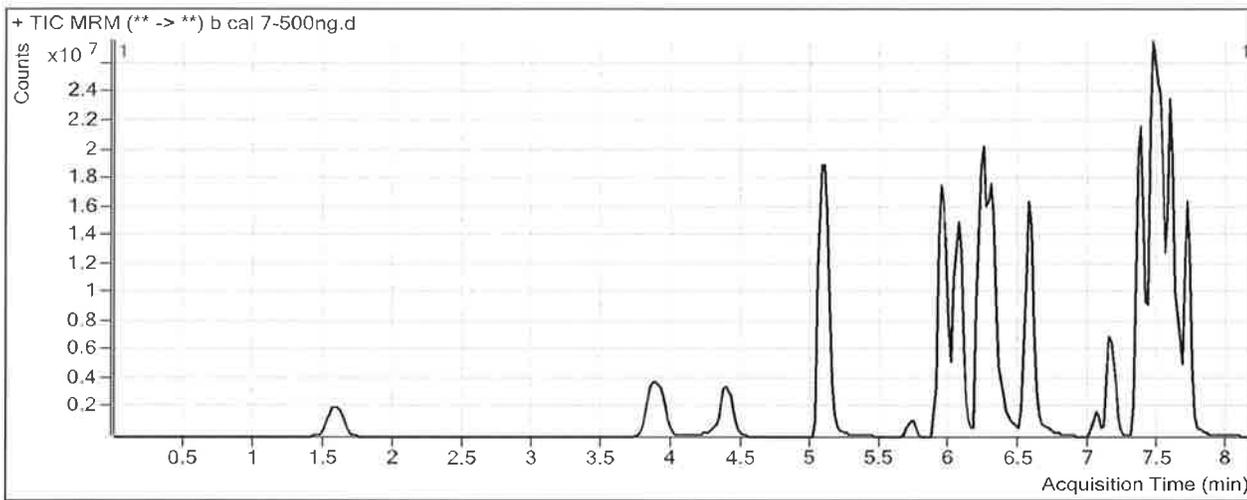
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Oxymorphone	Oxymorphone-D3	1.588	13030327	777526	16.7587	545.6426
Dihydrocodeine	Dihydrocodeine-D6	3.890	13152196	1258435	10.4512	509.1401
Noroxycodone	Noroxycodone-D3	4.391	17725822	984967	17.9964	538.5900
O-desmethyl-tramadol	O-desmethyl-tramadol-D6	5.100	90178045	12267969	7.3507	367.4803
Benzoylecgonine	Benzoylecgonine-d8	5.711	1507780	114223	13.2004	423.0395
Ketamine	Ketamine-D4	5.942	63526090	5649921	11.2437	479.1875
Norfentanyl	Norfentanyl-D5	6.004	6471428	6022508	1.0745	49.6584
Cocaine	Cocaine-d3	6.232	26857983	6186763	4.3412	521.1839
alpha-PVP	alpha-PVP-d8	6.308	37684402	4023937	9.3651	517.6966
Mirtazapine	alpha-PVP-d8	6.563	38265845	4023937	9.5096	507.4243
Norbuprenorphine	Norbuprenorphine-D3	6.974	35808	38530	0.9294	44.9163
Fentanyl	Fentanyl-D5	7.037	2271172	2463830	0.9218	53.5145
Mitragynine	EDDP-D3	7.136	10446311	760079	13.7437	510.0574
EDDP	EDDP-D3	7.169	9381498	760079	12.3428	560.6514
Quetiapine	Quetiapine-D8	7.358	51395269	1545419	33.2565	378.1175
Cyclobenzaprine	Cyclobenzaprine-D3	7.433	16800661	1318872	12.7387	496.8366
Methadone	Methadone-D9	7.461	56894399	4478765	12.7031	477.4687
Buprenorphine	Buprenorphine-D4	7.476	807112	582825	1.3848	47.9090
Fluoxetine	Fluoxetine-D6	7.521	38995652	3590025	10.8622	516.3218

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Oxazepam	Oxazepam-D5	7.529	3253228	293967	11.0666	482.7307
Sertraline	Sertraline-D3	7.583	15918807	1355726	11.7419	550.6059
Temazepam	Temazepam-D5	7.604	32411735	3002277	10.7957	522.8123
Nordiazepam	Nordiazepam-D5	7.655	10508840	448366	23.4381	569.4873
Diazepam	Diazepam-D5	7.712	22067412	1663550	13.2653	493.0317

TS

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P1b.batch.bin		
Analysis Time	9/6/2018 10:03 AM	**Analyst Name**	ISPUser
Report Time	9/6/2018 2:45 PM	**Reporter Name**	ISPUser
Last Calib Update	9/6/2018 10:03 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-09-05 17:22	**Data File**	b cal 8-1000ng.d
Sample Type	Calibration	**Sample Name**	b cal 8-1000ng.d
Dilution	1	**Acq Method**	MD Quant Panel 1b 7-11-18.m
Position	P1-A12	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28

Sample Chromatogram

+ TIC MRM (** -> **) b cal 8-1000ng.d
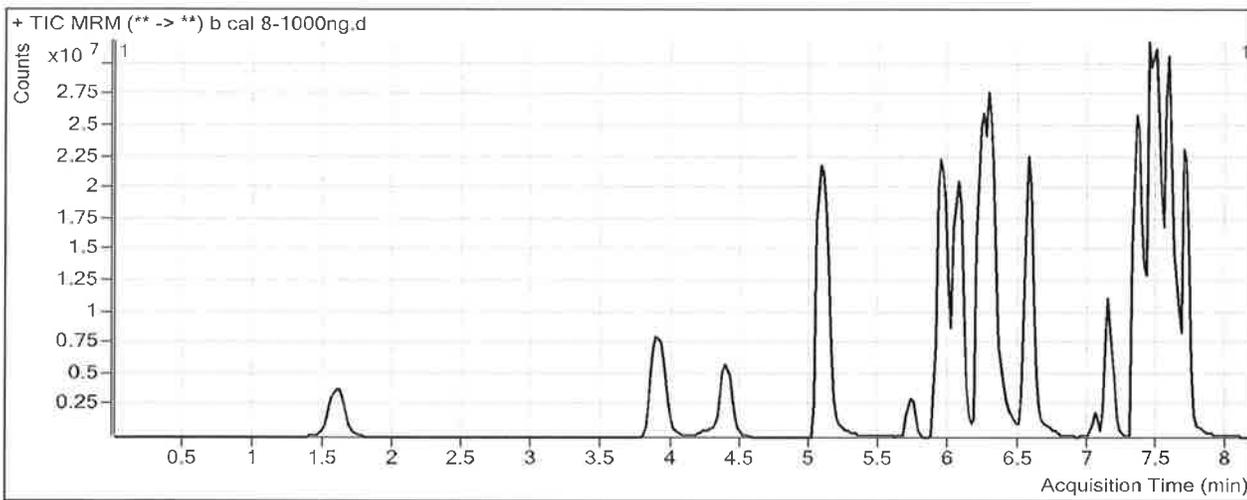
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Oxymorphone	Oxymorphone-D3	1.608	24769575	774945	31.9630	1039.0129
Dihydrocodeine	Dihydrocodeine-D6	3.890	23610575	1165818	20.2524	984.6313
Noroxycodone	Noroxycodone-D3	4.391	29440231	797482	36.9165	1102.8686
O-desmethyl-tramadol	O-desmethyl-tramadol-D6	5.100	118817203	11062382	10.7407	536.6568
Benzoylecgonine	Benzoylecgonine-d8	5.711	4139160	115066	35.9720	1039.7523
Ketamine	Ketamine-D4	5.942	91971064	5263122	17.4746	744.2199
Norfentanyl	Norfentanyl-D5	6.004	11549673	5153197	2.2413	102.9923
Cocaine	Cocaine-d3	6.232	43007813	5231085	8.2216	985.2868
alpha-PVP	alpha-PVP-d8	6.308	59108240	3211111	18.4074	1016.5346
Mirtazapine	alpha-PVP-d8	6.563	53759091	3211111	16.7416	893.3615
Norbuprenorphine	Norbuprenorphine-D3	6.974	40933	20267	2.0197	100.5144
Fentanyl	Fentanyl-D5	7.037	2983677	1581277	1.8869	109.2072
Mitragynine	EDDP-D3	7.115	13603678	594324	22.8893	848.9295
EDDP	EDDP-D3	7.169	15456078	594324	26.0061	1178.7044
Quetiapine	Quetiapine-D8	7.338	60637903	1132937	53.5228	608.1658
Cyclobenzaprine	Cyclobenzaprine-D3	7.433	24041423	919166	26.1557	1017.7499
Methadone	Methadone-D9	7.461	61948858	3324987	18.6313	699.9467
Buprenorphine	Buprenorphine-D4	7.476	1034800	359848	2.8757	99.7681
Fluoxetine	Fluoxetine-D6	7.502	45514095	2263671	20.1063	955.3640

TS P

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Oxazepam	Oxazepam-D5	7.529	6905625	287067	24.0558	1045.9460
Sertraline	Sertraline-D3	7.563	19043951	825464	23.0706	1080.3670
Temazepam	Temazepam-D5	7.584	51310477	2599783	19.7364	955.3724
Nordiazepam	Nordiazepam-D5	7.655	17147455	395409	43.3664	1052.5000
Diazepam	Diazepam-D5	7.692	35727831	1303153	27.4164	1016.5663