10/31/2018

Worklist: 2765

LAB_CASE	ITEM	TASK_ID	DESCRIPTION	
C2018-2001	2	130715	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	||| || ||||||||||||||||||| ||||||| ||||||| |||
C2018-2060	1	130714	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	||| ||| |||||||||||||||||||| |||	|||||| |||
C2018-2076	2	130713	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	||| ||| |||||||||||||||||| || |||||||| |||
C2018-2089	1	130712	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	||| ||| |||||||||||||||||| ||| |||||| || |||
C2018-2098	1	130711	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	||| ||| |||||||||||||||||| |||| ||	|||| |||
C2018-2101	1	130710	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	||| ||| |||||||||||||||||| ||| ||||| || |||
C2018-2103	2	130709	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	||| ||| |||||||||||||||||| ||| |||||||| |||
C2018-2113	1	130708	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	||| ||| |||||||||||||||||| || ||| ||||| |||
C2018-2135	1	130707	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	||| ||| |||||||||||||||||| || |||	|||||| |||
C2018-2163	1	130706	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	||| ||| |||||||||||||||||| || ||||| ||	|||

1

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

Extraction Date: 10/31/18   Analyst: Britany Wylie
Plate lot#: 0530563   Plate Expiration: May 21 2019

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: 18G207D7   **Column**: Agilent 120 EC-C18 (2.1x 100-4um)
LCMS-QQQ ID: 62340

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: 1926134** in wells of analytical (standards) plate.
3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.   *Shaker ID: 66759*
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: 66792*
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: 66819*
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.
    Batch Name: 10312018 MDQ p1a - R, 1032018 MDQ p1b-r , MDQ p2-b rerun
2. Make necessary changes to integration limits
3. Integration linear and R² values ≥0.98 for each analyte.
4. For unknown samples and controls: response ratio within 20% of average of controls and standards, RT within +/- 5% (tramadol RT +/-2%), S/N for primary transition >10 and secondary transitions >5.
5. Did all QCs pass for each analyte? See comments. Add Control data to QC tracking spreadsheet.
6. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports.

COMMENTS: Not Evaluated: carisoprodol, lorazepam, norhydrocodone, ~~phentermine~~, benzoyecgonine and mitragynine
Curves limited: BW
                                                                    10-520 BU
(p1a): 6-mam 2.5-100, 7-aminoclonazepam 5-250, a-hydroxyalprazolam 5-100, amphetamine ~~5-500~~, meprobamate 5-500,
methamphetamine 5-250, metoprolol 5-250, morphine ~~5-500~~ tramadol 5-500,
(p1b): Buprenorphine 2.5-50, dihydrocodeine 5-500, norbuprenorphine 2.5-100, norfentanyl 2.5-100, sertraline 5-500
    phentermine 2.5-1000

Toxicology AM method 28 panel 1 external prep information

working solution 10000 ng/ml in meoh Lorazepam, alprazolam, diphenhydramine, methadone, sertraline

Stock solution 1mg/ml 100 ul each in 9500 ul meOH

Ppd 3/19/18 Exp: 3/19/19 lot 31919   by AMN

Drug	lot	expiration
alprazolam	fe07161509	7/1/2020
diphenhydramine	fn09161502	9/1/2020
Lorazepam	fe04231401	5/1/2019
methadone	fe06221502	7/1/2020
sertraline	fn01081501	3/1/2020

AM 28 control 50 ul working solution lot (31919) in 9950 ul blood lot (17J20718)

| ppd 3/19/18 Exp 9/19/18 | by AMN | Concentration 50 ng/ml each | lot 91918 |
| ppd 10/10/18 Exp 3/19/19 | by AMN | Concentration 50 ng/ml each | lot 101018 |

Batch Data Path	D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1a-r.batch.bin		
Analysis Time	11/5/2018 9:47 AM	**Analyst Name**	ISP Tox
Report Time	11/5/2018 9:52 AM	**Reporter Name**	ISP Tox
Last Calib Update	11/5/2018 9:47 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-10-31 18:45	**Data File**	a negative control.d
Sample Type	Sample	**Sample Name**	a negative control
Dilution	1	**Acq Method**	a1 mdq 618.m
Position	P2-E2	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28 Panel 1, negative

Sample Chromatogram

+ TIC MRM (** -> **) a negative control.d

ISP FORENSICS - Cd'A Instrument # 62340
Multi-Drug Confirmatory Analysis Report

Batch Data Path	D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1a-r.batch.bin		
Analysis Time	11/5/2018 9:47 AM	**Analyst Name**	ISP Tox
Report Time	11/5/2018 9:52 AM	**Reporter Name**	ISP Tox
Last Calib Update	11/5/2018 9:47 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-10-31 19:11	**Data File**	a External control.d
Sample Type	Sample	**Sample Name**	a External control
Dilution	1	**Acq Method**	a1 mdq 618.m
Position	P2-F2	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28; external control p1

Sample Chromatogram

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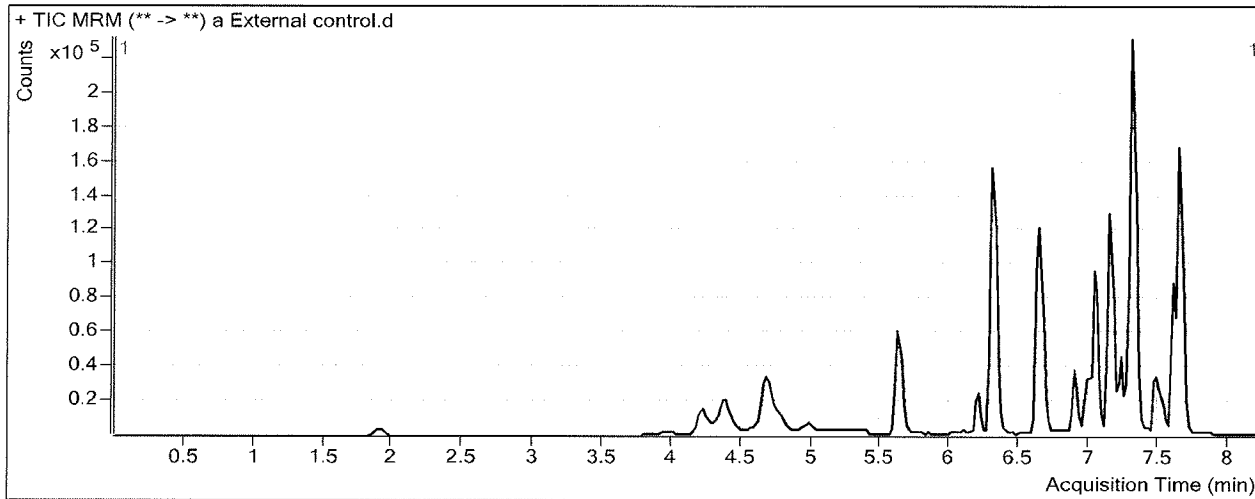
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc	
Diphenhydramine	Diphenhydramine-D3	7.312	203558	212339	0.9586	43.0229	
~~Lorazepam~~	~~Clonazepam-D4~~	~~7.623~~	~~44283~~	~~24644~~	~~1.7969~~	~~54.6547~~	not evaluated
Alprazolam	Alprazolam-D5	7.647	111232	96048	1.1581	44.2939	

ISP FORENSICS - Cd'A Instrument # 62340
Multi-Drug Confirmatory Analysis Report

Batch Data Path	D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1a-r.batch.bin		
Analysis Time	11/6/2018 10:32 AM	**Analyst Name**	ISP Tox
Report Time	11/6/2018 10:36 AM	**Reporter Name**	ISP Tox
Last Calib Update	11/6/2018 10:31 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-10-31 19:36	**Data File**	a QC 10.d
Sample Type	QC	**Sample Name**	a QC 10
Dilution	1	**Acq Method**	a1 mdq 618.m
Position	P2-A2	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28 Panel 1

Sample Chromatogram

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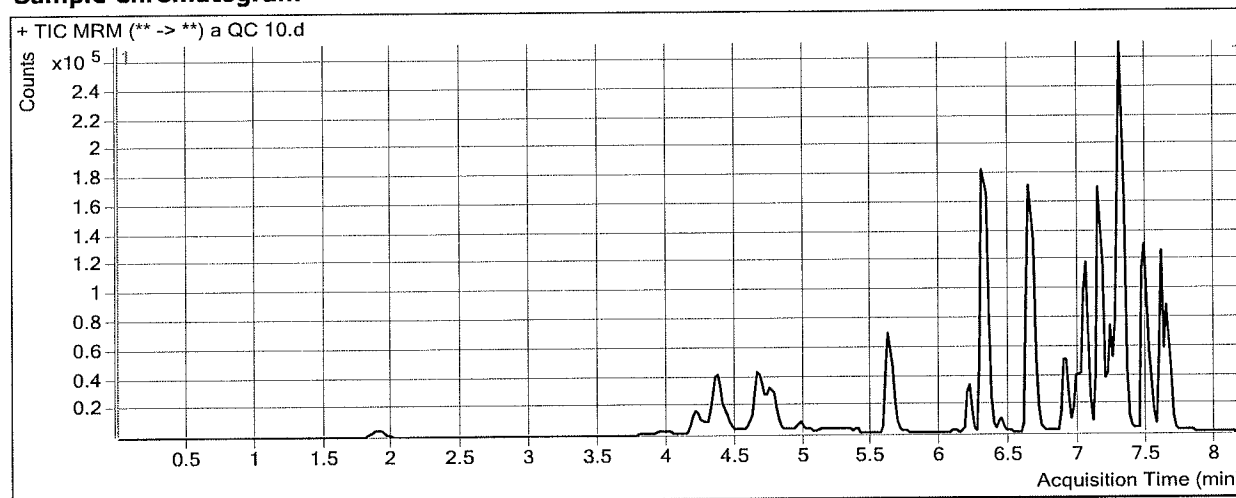
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.308	1641	1563	1.0504	11.3561
Hydromorphone	Hydromorphone-D6	1.909	7087	21915	0.3234	10.7117
Codeine	Codeine-D6	4.036	3219	11490	0.2801	9.9152
Amphetamine	Amphetamine-D11	4.363	77401	68021	1.1379	8.0671
Oxycodone	Oxycodone-D6	4.429	18973	75188	0.2523	11.3198
Hydrocodone	Hydrocodone-D6	4.734	11639	56843	0.2048	10.4358
Methamphetamine	Methamphetamine-D11	4.782	56575	149390	0.3787	9.2256
Norhydrocodone	Norhydrocodone-D3	4.779	754	23322	0.0323	20.1338
6-MAM	6-MAM-D6	4.968	402	14063	0.0286	0.9366
Phentermine	Phentermine-D5	5.666	17333	225851	0.0767	6.3441
Dextrorphan	Dextrorphan-D3	6.204	11053	73268	0.1509	10.7368
7-aminoclonazepam	7-Aminoclonazepam-D4	6.312	17999	63848	0.2819	10.8355
Tramadol	Tramadol-13C-D3	6.323	95868	412296	0.2325	10.5353
Metoprolol	Oxycodone-D6	6.437	13001	75188	0.1729	10.5209
Doxylamine	Doxylamine-D5	6.662	88288	415088	0.2127	9.8475
Bupropion	Bupropion-D9	6.910	32753	130729	0.2505	10.1069
Meprobamate	Meprobamate-D7	7.012	14228	76968	0.1849	11.5609
Zolpidem	Zolpidem-D6	7.061	55650	296515	0.1877	9.6735
Venlafaxine	Venlafaxine-D6	7.145	83235	343908	0.2420	10.3752
Trazodone	Trazodone-D6	7.256	46272	186628	0.2479	11.0771
Citalopram	Citalopram-D6	7.278	41117	194614	0.2113	9.7567
Dextromethorphan	Dextromethorphan-D3	7.288	10099	45818	0.2204	10.0519
Diphenhydramine	Diphenhydramine-D3	7.312	83576	352122	0.2373	10.4679

[handwritten annotations: "✱" marks on Norhydrocodone, 6-MAM, Phentermine rows; "outside range" next to Phentermine]

✱ not evaluated

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Promethazine	Promethazine-D3	7.487	52461	287092	0.1827	10.4968
Clonazepam	Clonazepam-D4	7.523	16574	21644	0.7658	11.0442
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.581	4705	18331	0.2567	10.5840
Carisoprodol	Carisoprodol-D7	7.612	31418	179272	0.1753	14.3563
Lorazepam	Clonazepam-D4	7.623	9326	21644	0.4309	11.7933
Alprazolam	Alprazolam-D5	7.647	28797	99447	0.2896	11.2011

ISP FORENSICS - Cd'A Instrument # 62340
Multi-Drug Confirmatory Analysis Report

Batch Data Path	D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1a-r.batch.bin		
Analysis Time	11/6/2018 10:32 AM	**Analyst Name**	ISP Tox
Report Time	11/6/2018 10:36 AM	**Reporter Name**	ISP Tox
Last Calib Update	11/6/2018 10:31 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-11-01 14:17	**Data File**	a qc 100r.d
Sample Type	QC	**Sample Name**	a qc 100
Dilution	1	**Acq Method**	a1 mdq 618.m
Position	P2-B2	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28 Panel 1

Sample Chromatogram
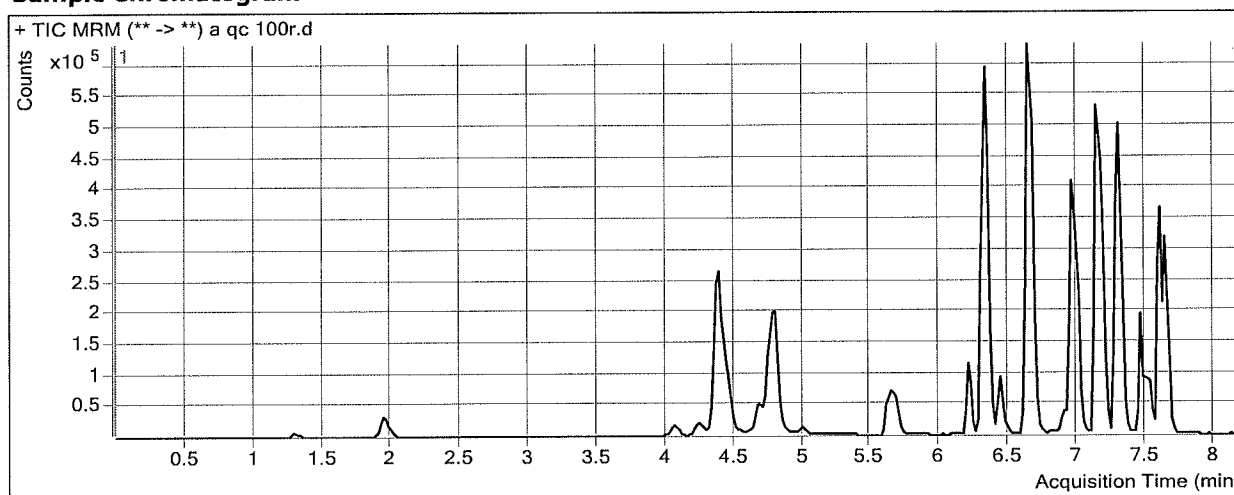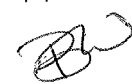
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.308	17695	1720	10.2874	108.9267
Hydromorphone	Hydromorphone-D6	1.969	75858	23210	3.2684	103.3143
Codeine	Codeine-D6	4.076	34568	11106	3.1126	109.9745
Amphetamine	Amphetamine-D11	4.403	657797	70312	9.3554	109.6716
Oxycodone	Oxycodone-D6	4.449	188484	73683	2.5581	112.0175
Hydrocodone	Hydrocodone-D6	4.754	124979	63103	1.9806	115.6083
Methamphetamine	Methamphetamine-D11	4.802	523710	152817	3.4270	111.5315
~~Norhydrocodone~~	~~Norhydrocodone-D3~~	~~4.799~~	~~10517~~	~~22709~~	~~0.4631~~	~~106.7468~~
6-MAM	6-MAM-D6	5.008	4722	15217	0.3103	10.4340
Phentermine	Phentermine-D5	5.686	171117	218793	0.7821	119.0021
Dextrorphan	Dextrorphan-D3	6.204	104430	64321	1.6236	108.7140
7-aminoclonazepam	7-Aminoclonazepam-D4	6.312	190635	66441	2.8692	104.8045
Tramadol	Tramadol-13C-D3	6.323	1003471	405467	2.4749	113.2081
Metoprolol	Oxycodone-D6	6.437	133434	73683	1.8109	108.5247
Doxylamine	Doxylamine-D5	6.640	946541	409007	2.3142	105.7286
Bupropion	Bupropion-D9	6.910	64928	26537	2.4467	98.9254
Meprobamate	Meprobamate-D7	7.012	125434	69792	1.7973	110.8130
Zolpidem	Zolpidem-D6	6.960	685307	324353	2.1128	114.3711
Venlafaxine	Venlafaxine-D6	7.145	775742	317694	2.4418	110.1321
Trazodone	Trazodone-D6	7.175	334097	130672	2.5568	116.8525
Citalopram	Citalopram-D6	7.278	273854	119751	2.2869	100.8521
Dextromethorphan	Dextromethorphan-D3	7.288	54241	22898	2.3688	102.3495
Diphenhydramine	Diphenhydramine-D3	7.312	565419	236922	2.3865	107.4683

✻ not evaluated

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Promethazine	Promethazine-D3	7.467	230901	125104	1.8457	101.8243
Clonazepam	Clonazepam-D4	7.523	151435	19164	7.9019	103.3984
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.581	38665	15747	2.4554	97.0845
Carisoprodol	Carisoprodol-D7	7.612	321671	170377	1.8880	126.3737
Lorazepam	Clonazepam-D4	7.623	44479	19164	2.3209	71.0954
Alprazolam	Alprazolam-D5	7.647	263824	96963	2.7209	103.8409

ISP FORENSICS - Cd'A Instrument # 62340
Multi-Drug Confirmatory Analysis Report

Batch Data Path	D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1a-r.batch.bin		
Analysis Time	11/6/2018 10:32 AM	**Analyst Name**	ISP Tox
Report Time	11/6/2018 10:35 AM	**Reporter Name**	ISP Tox
Last Calib Update	11/6/2018 10:31 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-11-01 18:31	**Data File**	a QC 250r.d
Sample Type	QC	**Sample Name**	a QC 250
Dilution	1	**Acq Method**	a1 mdq 618.m
Position	P2-C2	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28 Panel 1

Sample Chromatogram

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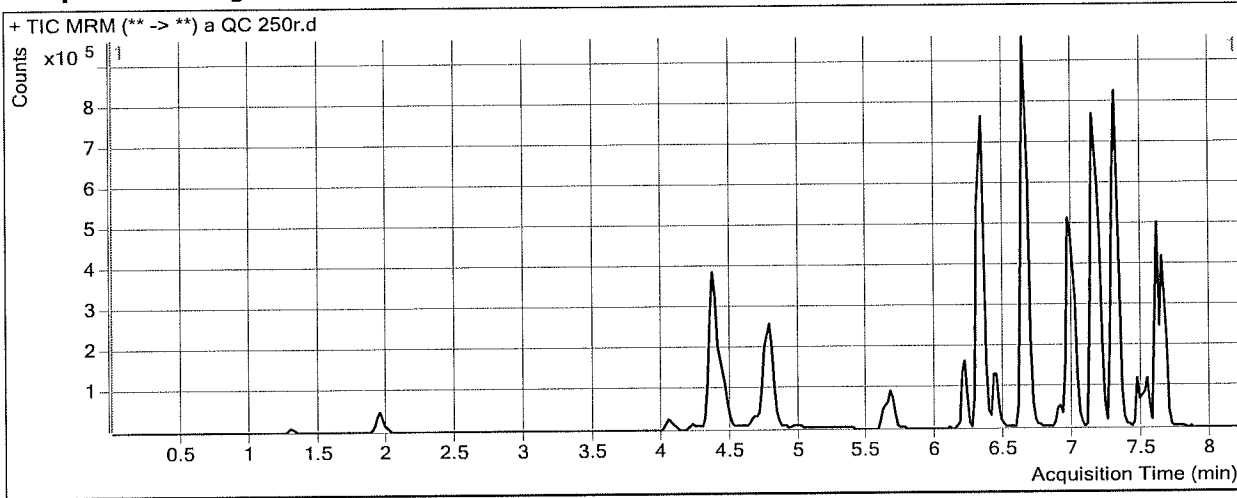
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.308	25791	934	27.6218	292.0311
Hydromorphone	Hydromorphone-D6	1.949	111529	13365	8.3447	262.9328
Codeine	Codeine-D6	4.056	50888	6672	7.6275	269.4678
Amphetamine	Amphetamine-D11	4.383	945051	43662	21.6445	261.6202
Oxycodone	Oxycodone-D6	4.449	279204	43570	6.4081	280.1614
Hydrocodone	Hydrocodone-D6	4.754	183074	36611	5.0006	294.4702
Methamphetamine	Methamphetamine-D11	4.782	584049	75258	7.7607	256.9741
※ Norhydrocodone	Norhydrocodone-D3	4.799	18234	13399	1.3608	287.2427
6-MAM	6-MAM-D6	4.988	6929	8210	0.8440	28.4203
Phentermine	Phentermine-D5	5.666	275426	151101	1.8228	285.2203
Dextrorphan	Dextrorphan-D3	6.204	185532	45464	4.0808	272.1917
7-aminoclonazepam	7-Aminoclonazepam-D4	6.312	242219	36064	6.7164	244.5293
Tramadol	Tramadol-13C-D3	6.323	1621939	268195	6.0476	276.7988
Metoprolol	Oxycodone-D6	6.437	213357	43570	4.8968	293.1572
Doxylamine	Doxylamine-D5	6.640	1523873	263165	5.7906	264.3319
Bupropion	Bupropion-D9	6.910	101871	16450	6.1928	250.4278
Meprobamate	Meprobamate-D7	7.012	207415	43343	4.7854	294.7487
Zolpidem	Zolpidem-D6	6.960	988326	186364	5.3032	287.8745
Venlafaxine	Venlafaxine-D6	7.145	1435745	228239	6.2905	284.6683
Trazodone	Trazodone-D6	7.175	512341	79187	6.4700	296.1318
Citalopram	Citalopram-D6	7.278	556121	91225	6.0961	268.0361
Dextromethorphan	Dextromethorphan-D3	7.288	86553	13375	6.4710	278.5856
Diphenhydramine	Diphenhydramine-D3	7.312	1084967	165826	6.5428	295.0581

※ not evaluated

ISP FORENSICS - Cd'A Instrument # 62340
Multi-Drug Confirmatory Analysis Report

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc	
Promethazine	Promethazine-D3	7.467	180750	35315	5.1182	281.5506	
Clonazepam	Clonazepam-D4	7.523	213549	11270	18.9491	246.3688	
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.581	55693	4936	11.2827	444.3540	outside range
Carisoprodol	Carisoprodol-D7	7.612	390411	93055	4.1955	277.2886	
Lorazepam	Clonazepam-D4	7.623	59887	11270	5.3140	165.0078	
Alprazolam	Alprazolam-D5	7.647	381223	50792	7.5056	286.1511	

ISP FORENSICS - Cd'A Instrument # 62340
Multi-Drug Confirmatory Analysis Report

Batch Data Path	D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1a-r.batch.bin		
Analysis Time	11/6/2018 10:32 AM	**Analyst Name**	ISP Tox
Report Time	11/6/2018 10:36 AM	**Reporter Name**	ISP Tox
Last Calib Update	11/6/2018 10:31 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-11-01 18:56	**Data File**	a qc 1000r.d
Sample Type	QC	**Sample Name**	a qc 1000
Dilution	1	**Acq Method**	a1 mdq 618.m
Position	P2-D2	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28 Panel 1

Sample Chromatogram

+ TIC MRM (** -> **) a qc 1000r.d
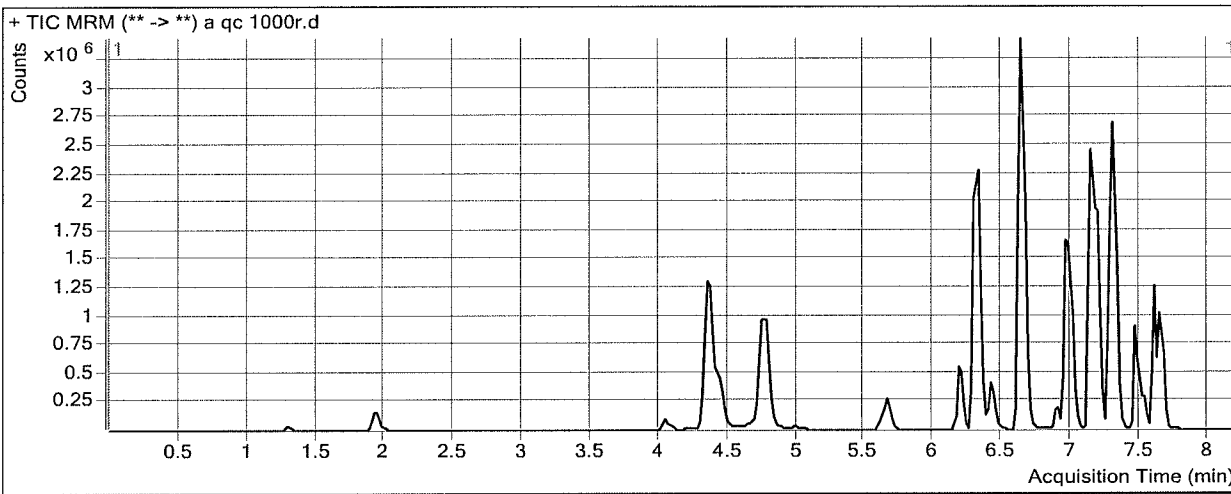
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc	
Morphine	Morphine-D6	1.308	88266	714	123.5385	1305.2067	outside range
Hydromorphone	Hydromorphone-D6	1.949	405107	13009	31.1414	979.7466	
Codeine	Codeine-D6	4.056	168381	6075	27.7170	979.1430	
Amphetamine	Amphetamine-D11	4.363	3619645	59715	60.6149	743.4675	outside range
Oxycodone	Oxycodone-D6	4.429	1048336	48046	21.8194	953.2173	
Hydrocodone	Hydrocodone-D6	4.734	629340	36915	17.0484	1008.0114	
Methamphetamine	Methamphetamine-D11	4.782	2521980	95186	26.4952	885.7311	outside range
Norhydrocodone	Norhydrocodone-D3	4.779	64114	11802	5.4327	1105.9198	
6-MAM	6-MAM-D6	4.988	27132	9359	2.8989	97.6780	
Phentermine	Phentermine-D5	5.666	940740	160232	5.8711	931.8122	
Dextrorphan	Dextrorphan-D3	6.184	698210	46850	14.9032	992.1895	
7-aminoclonazepam	7-Aminoclonazepam-D4	6.312	691763	33383	20.7223	753.2042	outside range
Tramadol	Tramadol-13C-D3	6.323	5896448	276598	21.3178	975.9942	
Metoprolol	Oxycodone-D6	6.417	662245	48046	13.7835	824.8554	
Doxylamine	Doxylamine-D5	6.640	5892730	290462	20.2875	925.7393	
Bupropion	Bupropion-D9	6.910	398653	17819	22.3727	904.7882	
Meprobamate	Meprobamate-D7	7.012	583592	30602	19.0705	1174.0723	outside range
Zolpidem	Zolpidem-D6	6.960	3647574	196773	18.5369	1007.5739	
Venlafaxine	Venlafaxine-D6	7.145	5395758	235999	22.8634	1036.2313	
Trazodone	Trazodone-D6	7.175	2415619	98566	24.5077	1122.5031	
Citalopram	Citalopram-D6	7.278	1975903	89209	22.1493	972.5916	
Dextromethorphan	Dextromethorphan-D3	7.288	413187	17882	23.1062	993.2476	
Diphenhydramine	Diphenhydramine-D3	7.312	4191654	191214	21.9213	989.1468	

*not evaluated

ISP FORENSICS - Cd'A Instrument # 62340
Multi-Drug Confirmatory Analysis Report

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc	
Promethazine	Promethazine-D3	7.467	1655613	89903	18.4155	1011.8247	
Clonazepam	Clonazepam-D4	7.523	483983	7676	63.0497	817.1116	
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.581	156241	3509	44.5228	1752.0348	outside range
Carisoprodol	Carisoprodol-D7	7.612	1124118	66107	17.0046	1115.0335	
Lorazepam	Clonazepam-D4	7.623	147475	7676	19.2119	601.0765	
Alprazolam	Alprazolam-D5	7.647	1058607	37457	28.2621	1077.0313	

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1a-r.batch.bin

Last Calib Update   11/5/2018 9:47 AM   **Analyst Name**   ISP TOX

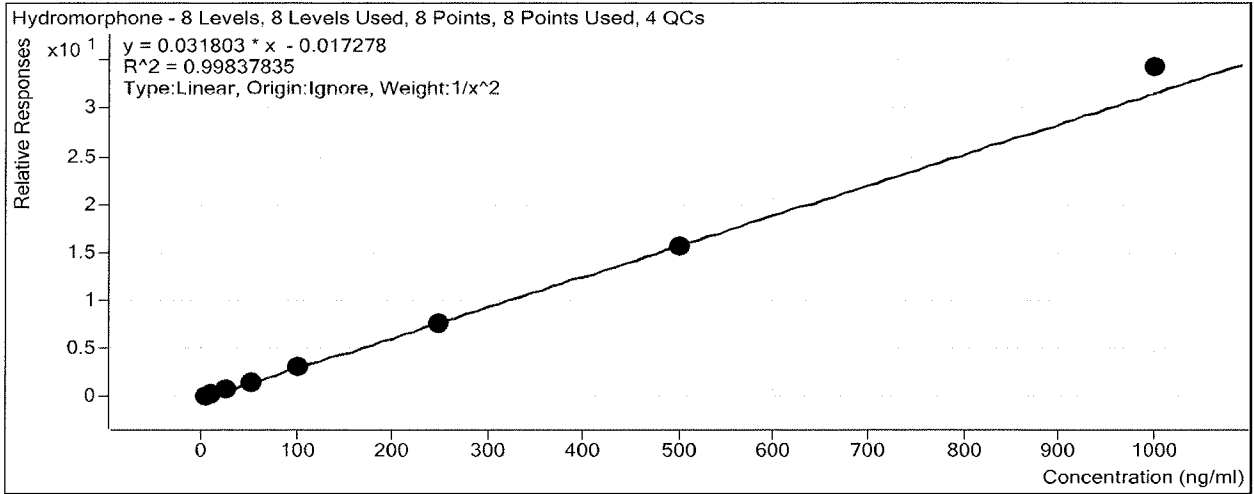### Target Compound   *Morphine*
Internal Standard   *Morphine-D6*

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

$y = 0.094669 * x - 0.024639$
$R^2 = 0.99902532$
Type:Linear, Origin:Ignore, Weight:1/x^2

Relative Responses ×10^1

Concentration (ng/ml)
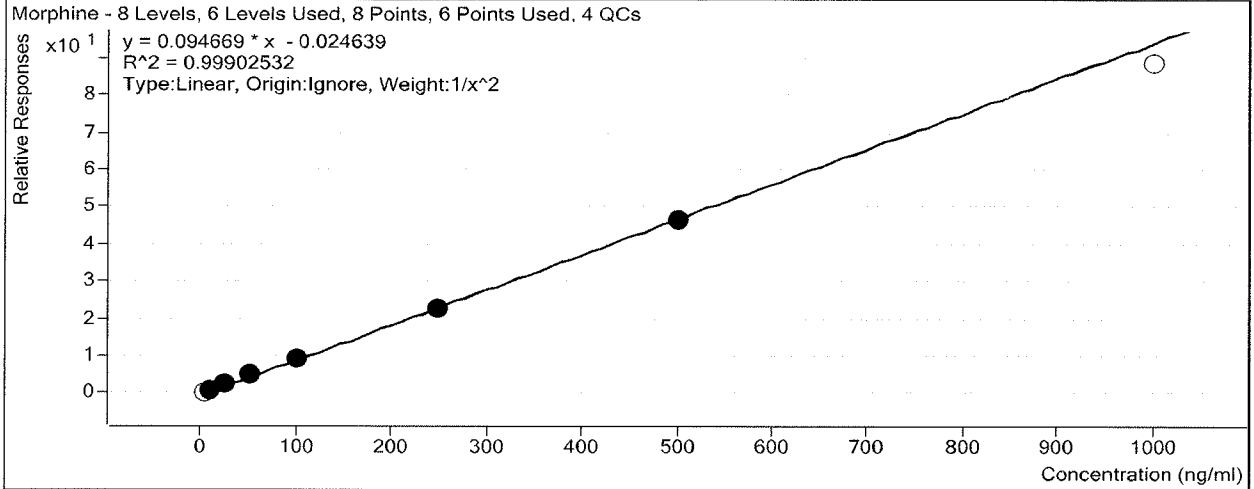
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☐	5	5.5	109.2
a cal 2-10ng	2	☑	10	9.8	98.1
a QC 10	2	☑	10	11.4	113.6
a cal 3-25ng	3	☑	25	26.0	103.8
a cal 4-50ng	4	☑	50	51.2	102.5
a cal 5-100ng	5	☑	100	99.6	99.6
a qc 100	5	☑	100	108.9	108.9
a cal 6-250ng	6	☑	250	243.5	97.4
a QC 250	6	☑	250	292.0	116.8
a cal 7-500ng	7	☑	500	492.7	98.5
a cal 8-1000ng	8	☐	1000	934.3	93.4
a qc 1000	8	☑	1000	1305.2	130.5

Batch Data Path   D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1a-r.batch.bin

Last Calib Update   11/5/2018 9:47 AM   **Analyst Name**   ISP TOX

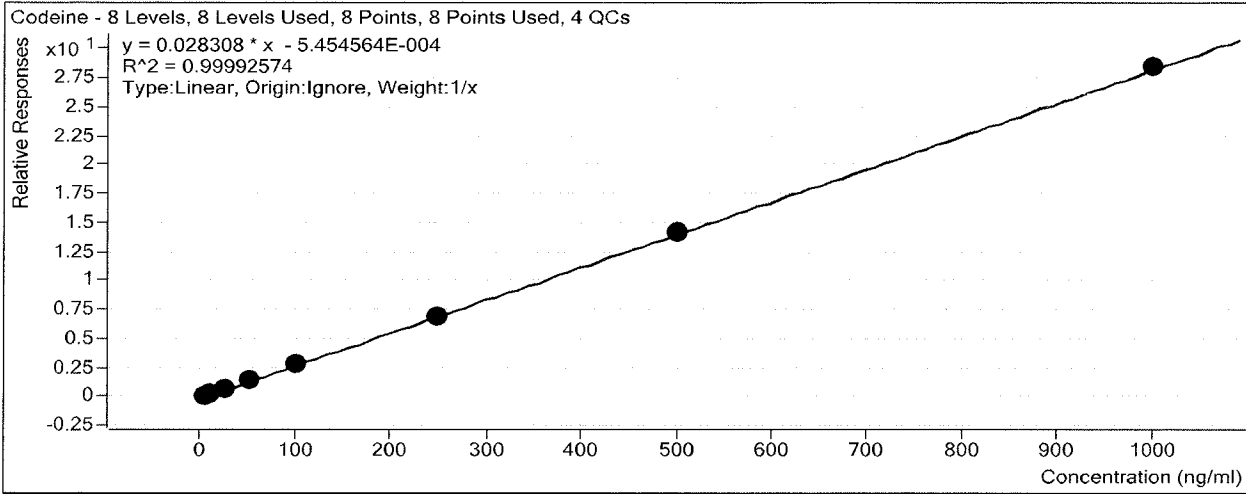### *Target Compound*   *Hydromorphone*
Internal Standard   *Hydromorphone-D6*

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

$y = 0.031803 * x - 0.017278$
$R^2 = 0.99837835$
Type:Linear, Origin:Ignore, Weight:$1/x^2$

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☑	5	5.1	101.4
a cal 2-10ng	2	☑	10	9.8	97.8
a QC 10	2	☑	10	10.7	107.1
a cal 3-25ng	3	☑	25	24.8	99.0
a cal 4-50ng	4	☑	50	50.1	100.1
a cal 5-100ng	5	☑	100	98.3	98.3
a qc 100	5	☑	100	103.3	103.3
a cal 6-250ng	6	☑	250	240.6	96.2
a QC 250	6	☑	250	262.9	105.2
a cal 7-500ng	7	☑	500	496.6	99.3
a cal 8-1000ng	8	☑	1000	1077.7	107.8
a qc 1000	8	☑	1000	979.7	98.0

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1a-r.batch.bin

Last Calib Update   11/5/2018 9:47 AM   **Analyst Name**   ISP TOX

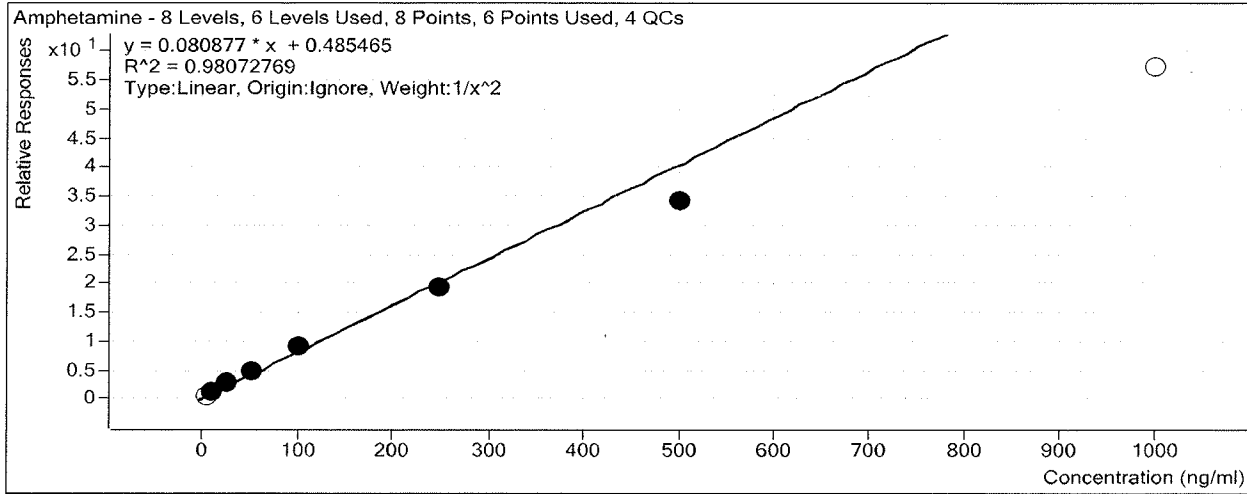*Target Compound*   *Codeine*
Internal Standard   *Codeine-D6*

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

$y = 0.028308 * x - 5.454564E\text{-}004$
$R^2 = 0.99992574$
Type:Linear, Origin:Ignore, Weight:1/x

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☑	5	5.2	104.4
a cal 2-10ng	2	☑	10	9.5	95.0
a QC 10	2	☑	10	9.9	99.2
a cal 3-25ng	3	☑	25	25.1	100.4
a cal 4-50ng	4	☑	50	51.3	102.5
a cal 5-100ng	5	☑	100	98.6	98.6
a qc 100	5	☑	100	110.0	110.0
a cal 6-250ng	6	☑	250	247.5	99.0
a QC 250	6	☑	250	269.5	107.8
a cal 7-500ng	7	☑	500	498.9	99.8
a cal 8-1000ng	8	☑	1000	1004.0	100.4
a qc 1000	8	☑	1000	979.1	97.9

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1a-r.batch.bin

Last Calib Update   11/5/2018 9:47 AM   **Analyst Name**   ISP TOX

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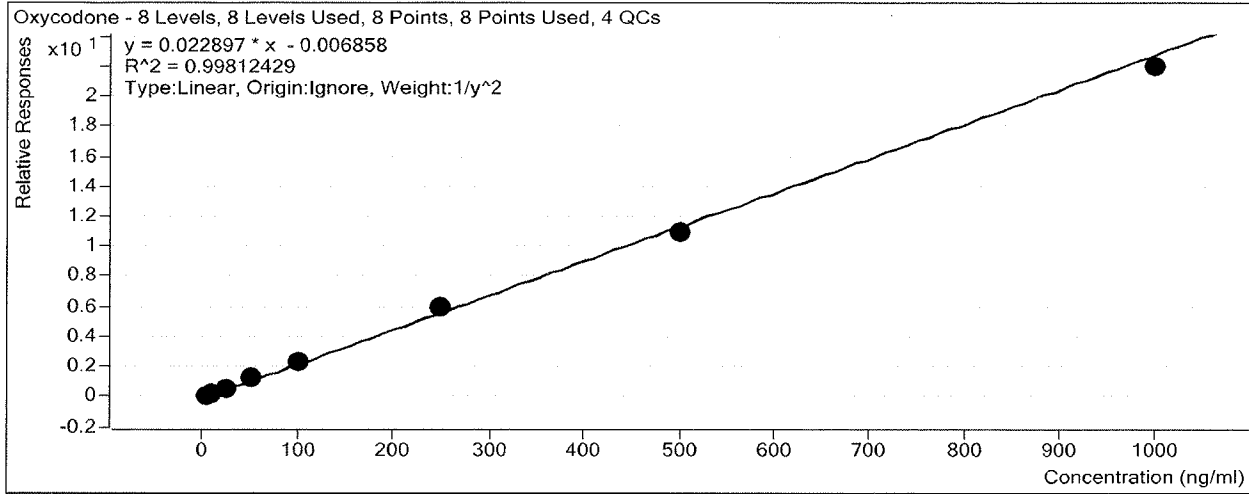*Internal Standard*   *Amphetamine-D11*

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

$y = 0.080877 * x + 0.485465$
$R^2 = 0.98072769$
Type:Linear, Origin:Ignore, Weight:$1/x^2$

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☐	5	2.4	48.0
a cal 2-10ng	2	☑	10	9.3	93.4
a QC 10	2	☑	10	8.1	80.7
a cal 3-25ng	3	☑	25	27.5	110.2
a cal 4-50ng	4	☑	50	55.5	111.0
a cal 5-100ng	5	☑	100	109.1	109.1
a qc 100	5	☑	100	109.7	109.7
a cal 6-250ng	6	☑	250	231.9	92.7
a QC 250	6	☑	250	261.6	104.6
a cal 7-500ng	7	☑	500	417.5	83.5
a cal 8-1000ng	8	☐	1000	701.9	70.2
a qc 1000	8	☐	1000	743.5	74.3

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1a-r.batch.bin

Last Calib Update   11/5/2018 9:47 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

$y = 0.022897 * x - 0.006858$
$R^2 = 0.99812429$
Type:Linear, Origin:Ignore, Weight:1/y^2

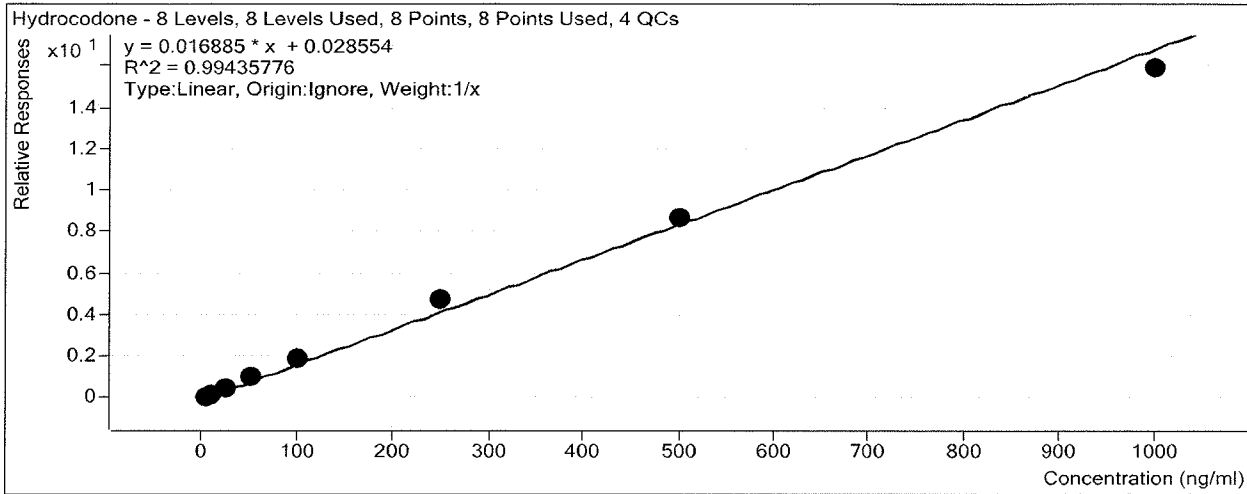| Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☑	5	5.0	100.5
a cal 2-10ng	2	☑	10	9.8	98.1
a QC 10	2	☑	10	11.3	113.2
a cal 3-25ng	3	☑	25	24.8	99.2
a cal 4-50ng	4	☑	50	52.9	105.9
a cal 5-100ng	5	☑	100	101.5	101.5
a qc 100	5	☑	100	112.0	112.0
a cal 6-250ng	6	☑	250	262.7	105.1
a QC 250	6	☑	250	280.2	112.1
a cal 7-500ng	7	☑	500	479.3	95.9
a cal 8-1000ng	8	☑	1000	958.2	95.8
a qc 1000	8	☑	1000	953.2	95.3

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1a-r.batch.bin

Last Calib Update 11/5/2018 9:47 AM   **Analyst Name**   ISP TOX

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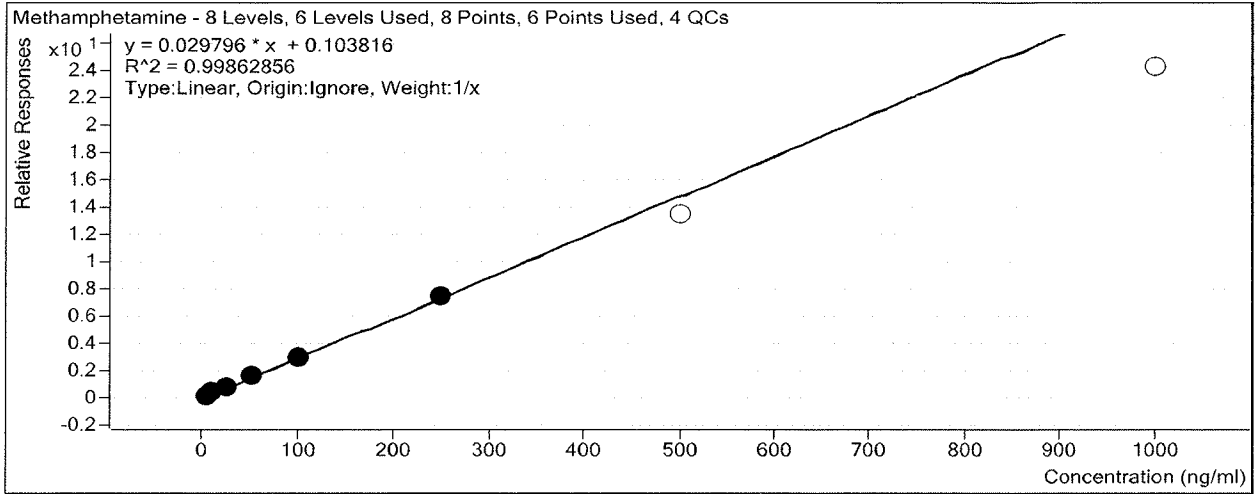*Internal Standard*   *Hydrocodone-D6*

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

$y = 0.016885 * x + 0.028554$
$R^2 = 0.99435776$
Type:Linear, Origin:Ignore, Weight:1/x

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☑	5	3.7	74.6
a cal 2-10ng	2	☑	10	8.9	88.9
a QC 10	2	☑	10	10.4	104.4
a cal 3-25ng	3	☑	25	25.8	103.2
a cal 4-50ng	4	☑	50	57.8	115.6
a cal 5-100ng	5	☑	100	108.8	108.8
a qc 100	5	☑	100	115.6	115.6
a cal 6-250ng	6	☑	250	279.1	111.6
a QC 250	6	☑	250	294.5	117.8
a cal 7-500ng	7	☑	500	516.5	103.3
a cal 8-1000ng	8	☑	1000	939.4	93.9
a qc 1000	8	☑	1000	1008.0	100.8

ISP Forensics
Calibration Curve Report

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

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

$y = 0.029796 * x + 0.103816$
$R^2 = 0.99862856$
Type:Linear, Origin:Ignore, Weight:1/x

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☑	5	4.4	88.1
a cal 2-10ng	2	☑	10	10.5	104.9
a QC 10	2	☑	10	9.2	92.3
a cal 3-25ng	3	☑	25	25.5	101.9
a cal 4-50ng	4	☑	50	53.9	107.9
a cal 5-100ng	5	☑	100	98.2	98.2
a qc 100	5	☑	100	111.5	111.5
a cal 6-250ng	6	☑	250	247.5	99.0
a QC 250	6	☑	250	257.0	102.8
a cal 7-500ng	7	☐	500	450.1	90.0
a cal 8-1000ng	8	☐	1000	812.8	81.3
a qc 1000	8	☑	1000	885.7	88.6

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1a-r.batch.bin

Last Calib Update   11/5/2018 9:47 AM   **Analyst Name**   ISP TOX

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

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

$y = 0.004974 * x - 0.067802$
$R^2 = 0.99906346$
Type:Linear, Origin:Ignore, Weight:1/x
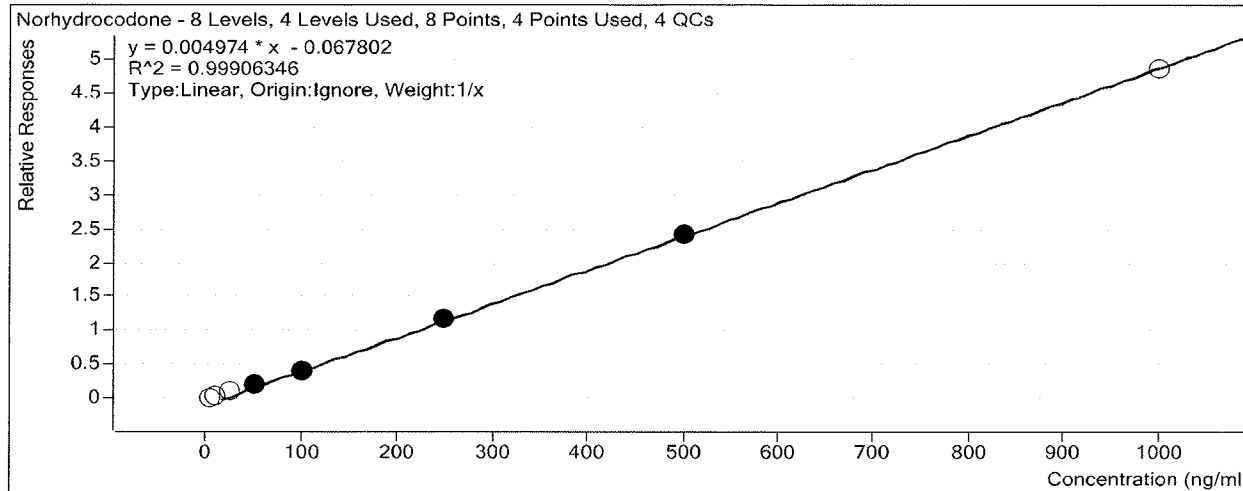
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☐	5	17.3	346.6
a cal 2-10ng	2	☐	10	21.0	209.8
a QC 10	2	☐	10	20.1	201.3
a cal 3-25ng	3	☐	25	32.3	129.2
a cal 4-50ng	4	☑	50	52.4	104.8
a cal 5-100ng	5	☑	100	94.6	94.6
a qc 100	5	☑	100	106.7	106.7
a cal 6-250ng	6	☑	250	250.2	100.1
a QC 250	6	☑	250	287.2	114.9
a cal 7-500ng	7	☑	500	502.8	100.6
a cal 8-1000ng	8	☐	1000	990.2	99.0
a qc 1000	8	☐	1000	1105.9	110.6

\# not evaluated

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1a-r.batch.bin

Last Calib Update   11/5/2018 9:47 AM   **Analyst Name**   ISP TOX

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

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

$y = 0.029670 * x + 7.696042E\text{-}004$
$R^2 = 0.99954542$
Type:Linear, Origin:Ignore, Weight:1/x

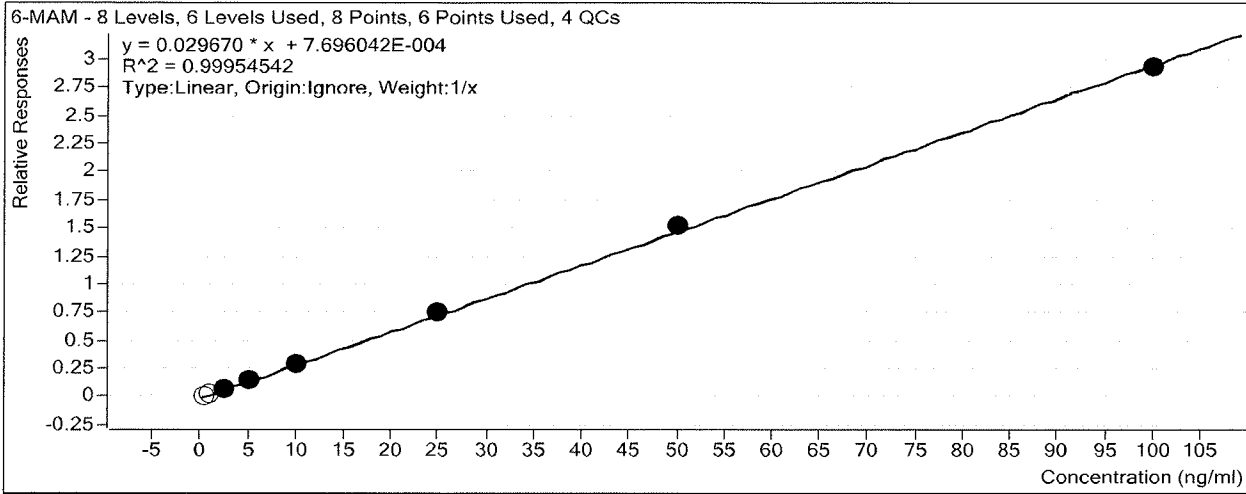| Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☐	0.5	0.4	89.5
a cal 2-10ng	2	☐	1	0.8	83.7
a QC 10	2	☑	1	0.9	93.7
a cal 3-25ng	3	☑	2.5	2.4	94.7
a cal 4-50ng	4	☑	5	5.3	105.5
a cal 5-100ng	5	☑	10	9.8	98.3
a qc 100	5	☑	10	10.4	104.3
a cal 6-250ng	6	☑	25	25.1	100.4
a QC 250	6	☑	25	28.4	113.7
a cal 7-500ng	7	☑	50	51.1	102.3
a cal 8-1000ng	8	☑	100	98.8	98.8
a qc 1000	8	☑	100	97.7	97.7

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1a-r.batch.bin

Last Calib Update   11/6/2018 10:31 AM   **Analyst Name**   ISP TOX

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

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

y = 0.006261 * x + 0.037025
R^2 = 0.99050935
Type:Linear, Origin:Ignore, Weight:1/x^2

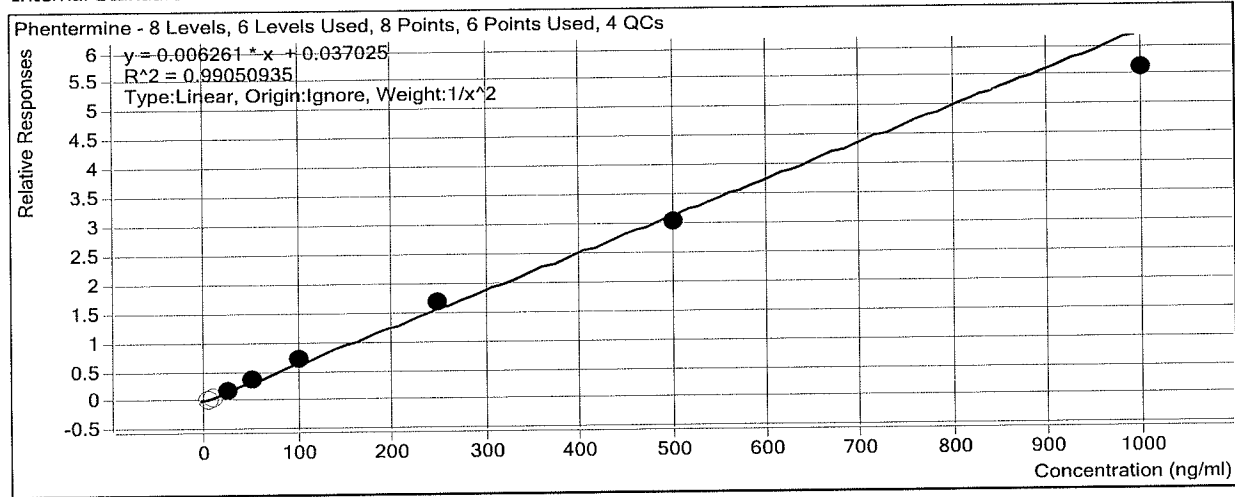| Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☐	5	0.0	0.0
a cal 2-10ng	2	☐	10	5.6	55.6
a QC 10	2	☑	10	6.3	63.4
a cal 3-25ng	3	☑	25	23.7	94.9
a cal 4-50ng	4	☑	50	52.6	105.3
a cal 5-100ng	5	☑	100	110.1	110.1
a qc 100	5	☑	100	119.0	119.0
a cal 6-250ng	6	☑	250	260.8	104.3
a QC 250	6	☑	250	285.2	114.1
a cal 7-500ng	7	☑	500	481.5	96.3
a cal 8-1000ng	8	☑	1000	891.3	89.1
a qc 1000	8	☑	1000	931.8	93.2

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1a-r.batch.bin

Last Calib Update   11/5/2018 9:47 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

$y = 0.015031 * x - 0.010524$
$R^2 = 0.99942835$
Type:Linear, Origin:Ignore, Weight:1/x^2

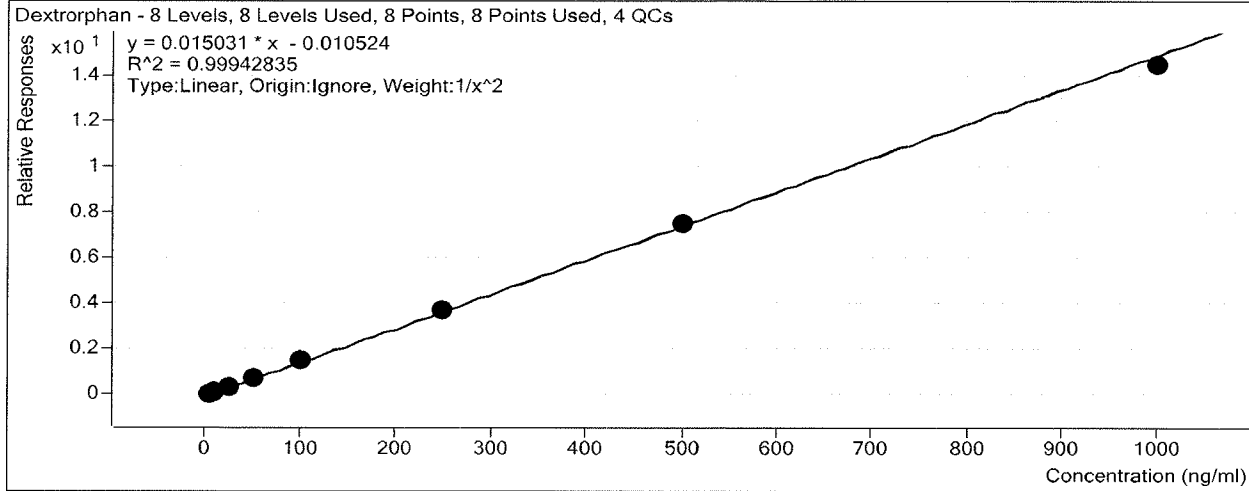| Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☑	5	5.0	100.4
a cal 2-10ng	2	☑	10	9.9	99.2
a QC 10	2	☑	10	10.7	107.4
a cal 3-25ng	3	☑	25	24.5	98.1
a cal 4-50ng	4	☑	50	51.4	102.9
a cal 5-100ng	5	☑	100	102.1	102.1
a qc 100	5	☑	100	108.7	108.7
a cal 6-250ng	6	☑	250	250.7	100.3
a QC 250	6	☑	250	272.2	108.9
a cal 7-500ng	7	☑	500	503.4	100.7
a cal 8-1000ng	8	☑	1000	964.5	96.4
a qc 1000	8	☑	1000	992.2	99.2

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1a-r.batch.bin

Last Calib Update   11/5/2018 9:47 AM   **Analyst Name**   ISP TOX

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

7-aminoclonazepam - 8 Levels, 6 Levels Used, 8 Points, 6 Points Used, 4 QCs

$y = 0.027534 * x - 0.016443$
$R^2 = 0.99928704$
Type:Linear, Origin:Ignore, Weight:$1/x^2$

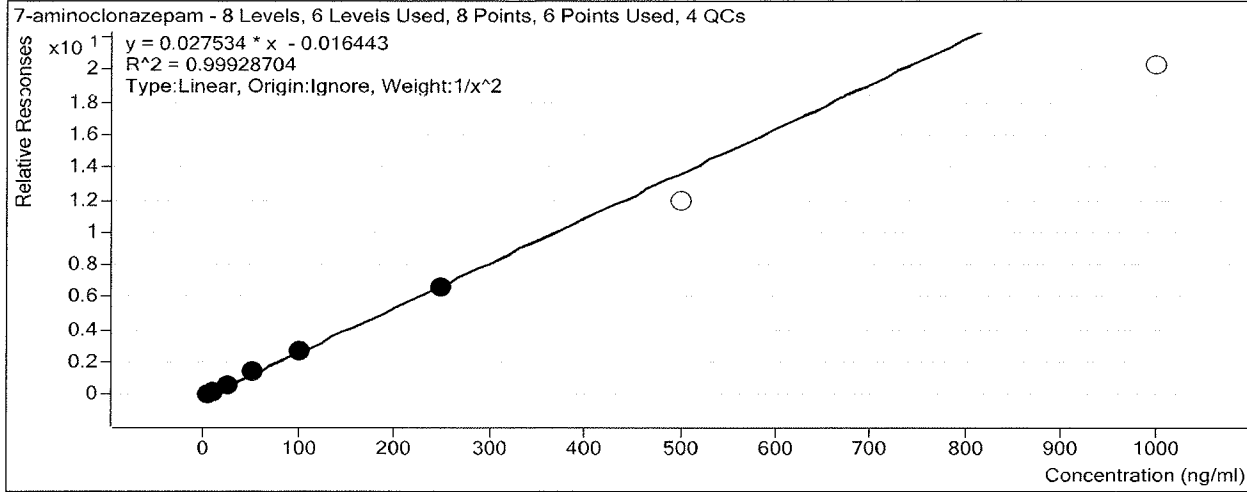| Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☑	5	5.0	99.3
a cal 2-10ng	2	☑	10	10.1	101.4
a QC 10	2	☑	10	10.8	108.4
a cal 3-25ng	3	☑	25	24.7	98.9
a cal 4-50ng	4	☑	50	51.8	103.6
a cal 5-100ng	5	☑	100	99.4	99.4
a qc 100	5	☑	100	104.8	104.8
a cal 6-250ng	6	☑	250	243.6	97.4
a QC 250	6	☑	250	244.5	97.8
a cal 7-500ng	7	☐	500	433.8	86.8
a cal 8-1000ng	8	☐	1000	736.1	73.6
a qc 1000	8	☑	1000	753.2	75.3

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1a-r.batch.bin

Last Calib Update   11/5/2018 9:47 AM   **Analyst Name**   ISP TOX

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

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

$y = 0.021840 * x + 0.002436$
$R^2 = 0.99191764$
Type:Linear, Origin:Ignore, Weight:$1/x^2$

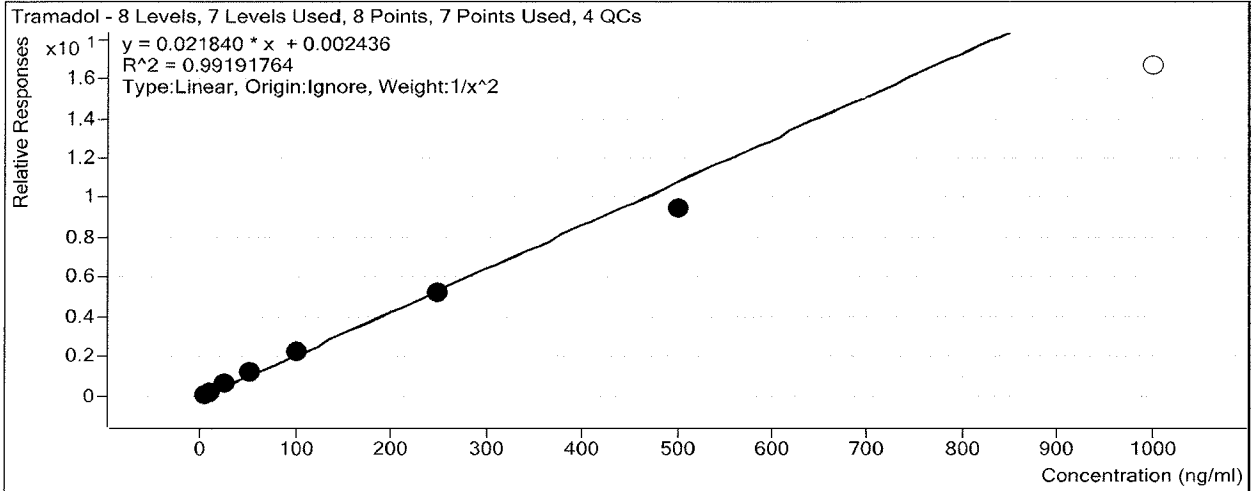| Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☑	5	4.9	97.5
a cal 2-10ng	2	☑	10	10.1	100.7
a QC 10	2	☑	10	10.5	105.4
a cal 3-25ng	3	☑	25	26.5	106.2
a cal 4-50ng	4	☑	50	55.1	110.1
a cal 5-100ng	5	☑	100	102.5	102.5
a qc 100	5	☑	100	113.2	113.2
a cal 6-250ng	6	☑	250	241.6	96.6
a QC 250	6	☑	250	276.8	110.7
a cal 7-500ng	7	☑	500	432.0	86.4
a cal 8-1000ng	8	☐	1000	763.2	76.3
a qc 1000	8	☑	1000	976.0	97.6

ISP Forensics
Calibration Curve Report

Batch Data Path　　　D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1a-r.batch.bin

Last Calib Update　　11/5/2018 9:47 AM　　　　　**Analyst Name**　　ISP TOX

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

Metoprolol - 8 Levels, 6 Levels Used, 8 Points, 6 Points Used, 4 QCs
$y = 0.016714 * x - 0.002927$
$R^2 = 0.99785635$
Type:Linear, Origin:Ignore, Weight:$1/x^2$

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☑	5	5.2	103.3
a cal 2-10ng	2	☑	10	9.4	94.1
a QC 10	2	☑	10	10.5	105.2
a cal 3-25ng	3	☑	25	24.4	97.6
a cal 4-50ng	4	☑	50	49.6	99.2
a cal 5-100ng	5	☑	100	101.8	101.8
a qc 100	5	☑	100	108.5	108.5
a cal 6-250ng	6	☑	250	259.9	104.0
a QC 250	6	☑	250	293.2	117.3
a cal 7-500ng	7	☐	500	436.2	87.2
a cal 8-1000ng	8	☐	1000	713.9	71.4
a qc 1000	8	☐	1000	824.9	82.5

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1a-r.batch.bin

Last Calib Update   11/5/2018 9:47 AM   **Analyst Name**   ISP TOX

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

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

$y = 0.021918 * x - 0.003144$

$R^2 = 0.99745844$

Type:Linear, Origin:Ignore, Weight:$1/x^2$

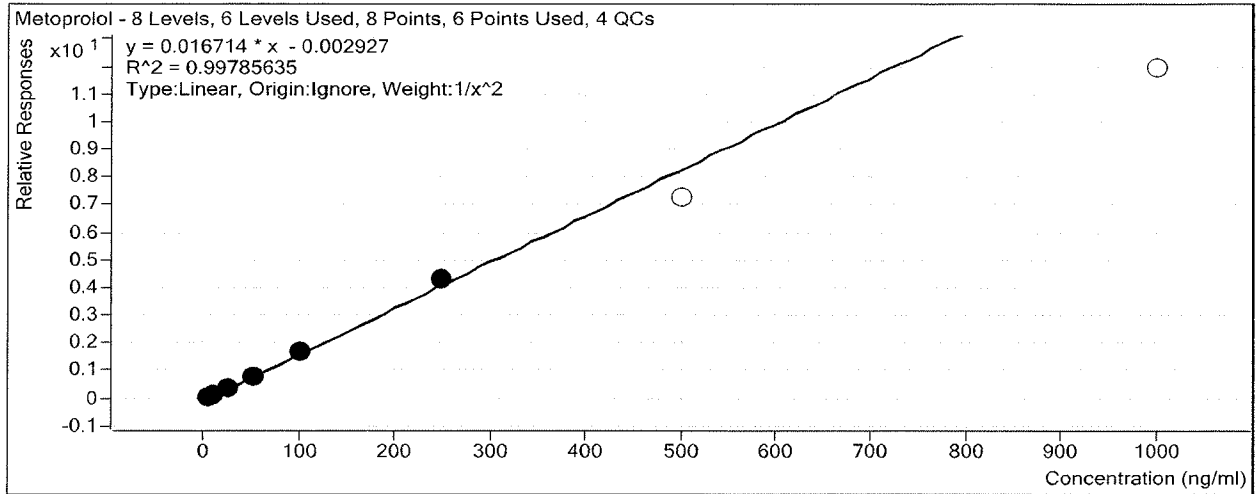| Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☑	5	4.9	98.5
a cal 2-10ng	2	☑	10	10.1	100.6
a QC 10	2	☑	10	9.8	98.5
a cal 3-25ng	3	☑	25	25.7	102.7
a cal 4-50ng	4	☑	50	53.3	106.6
a cal 5-100ng	5	☑	100	101.0	101.0
a qc 100	5	☑	100	105.7	105.7
a cal 6-250ng	6	☑	250	255.8	102.3
a QC 250	6	☑	250	264.3	105.7
a cal 7-500ng	7	☑	500	479.3	95.9
a cal 8-1000ng	8	☑	1000	924.3	92.4
a qc 1000	8	☑	1000	925.7	92.6

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1a-r.batch.bin

Last Calib Update   11/5/2018 9:47 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

$y = 0.024726 * x + 6.342351E\text{-}004$
$R^2 = 0.99826592$
Type:Linear, Origin:Ignore, Weight:1/x^2

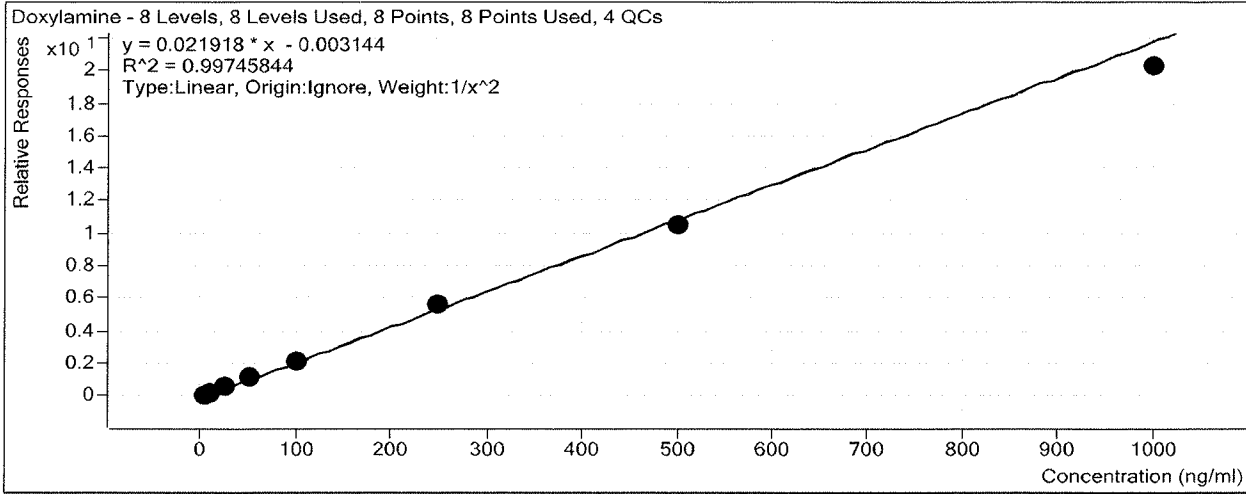| Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☑	5	5.0	99.2
a cal 2-10ng	2	☑	10	10.0	100.1
a QC 10	2	☑	10	10.1	101.1
a cal 3-25ng	3	☑	25	25.0	100.1
a cal 4-50ng	4	☑	50	54.0	107.9
a cal 5-100ng	5	☑	100	98.8	98.8
a qc 100	5	☑	100	98.9	98.9
a cal 6-250ng	6	☑	250	251.4	100.5
a QC 250	6	☑	250	250.4	100.2
a cal 7-500ng	7	☑	500	490.4	98.1
a cal 8-1000ng	8	☑	1000	952.2	95.2
a qc 1000	8	☑	1000	904.8	90.5

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1a-r.batch.bin

Last Calib Update   11/5/2018 9:47 AM   **Analyst Name**   ISP TOX

__Target Compound__   *Meprobamate*
Internal Standard   *Meprobamate-D7*

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

$y = 0.016246 * x - 0.002960$
$R^2 = 0.99114855$
Type:Linear, Origin:Ignore, Weight:$1/x^2$

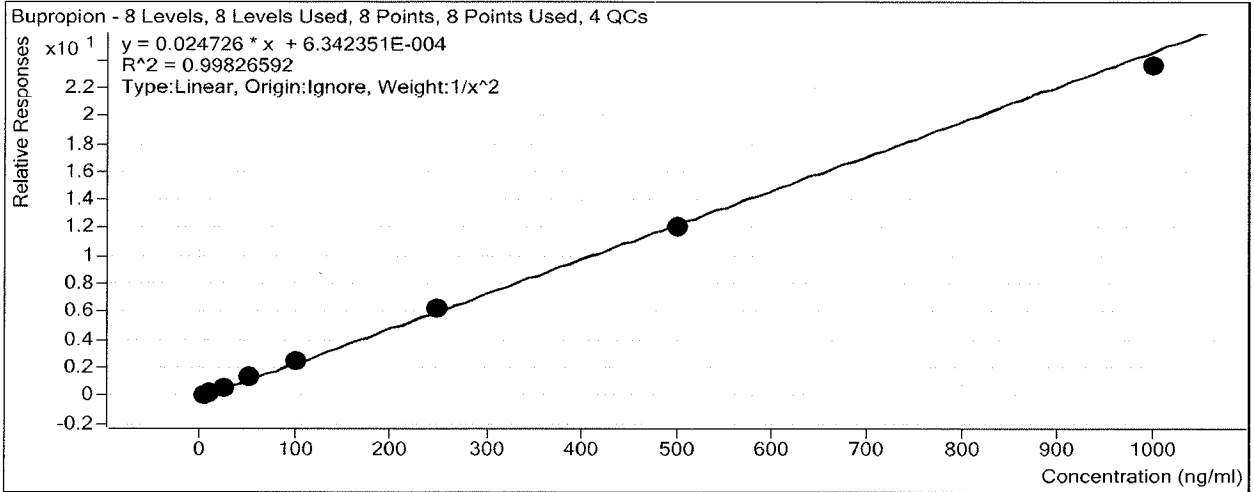| Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☑	5	4.8	96.5
a cal 2-10ng	2	☑	10	10.1	101.3
a QC 10	2	☑	10	11.6	115.6
a cal 3-25ng	3	☑	25	27.8	111.3
a cal 4-50ng	4	☑	50	54.7	109.5
a cal 5-100ng	5	☑	100	96.9	96.9
a qc 100	5	☑	100	110.8	110.8
a cal 6-250ng	6	☑	250	239.2	95.7
a QC 250	6	☑	250	294.7	117.9
a cal 7-500ng	7	☑	500	444.2	88.8
a cal 8-1000ng	8	☐	1000	815.4	81.5
a qc 1000	8	☑	1000	1174.1	117.4

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1a-r.batch.bin

Last Calib Update   11/5/2018 9:47 AM   **Analyst Name**   ISP TOX

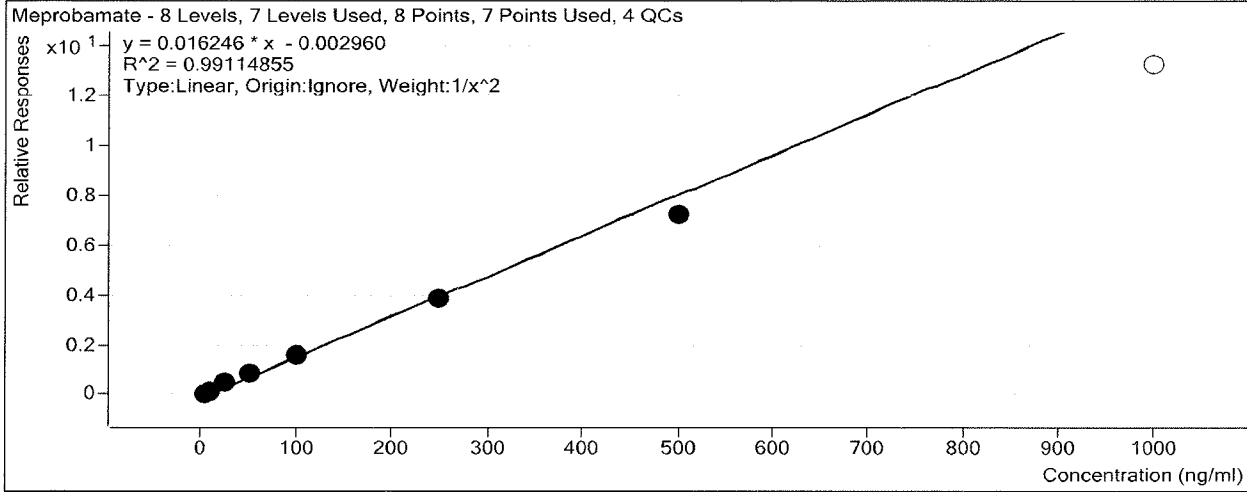***Target Compound***   *Zolpidem*
Internal Standard   *Zolpidem-D6*

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

$y = 0.018388 * x + 0.009806$
$R^2 = 0.99831103$
Type:Linear, Origin:Ignore, Weight:1/x

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☑	5	4.3	86.3
a cal 2-10ng	2	☑	10	8.9	88.8
a QC 10	2	☑	10	9.7	96.7
a cal 3-25ng	3	☑	25	26.5	106.1
a cal 4-50ng	4	☑	50	53.2	106.4
a cal 5-100ng	5	☑	100	109.2	109.2
a qc 100	5	☑	100	114.4	114.4
a cal 6-250ng	6	☑	250	263.7	105.5
a QC 250	6	☑	250	287.9	115.1
a cal 7-500ng	7	☑	500	503.5	100.7
a cal 8-1000ng	8	☑	1000	970.7	97.1
a qc 1000	8	☑	1000	1007.6	100.8

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1a-r.batch.bin

Last Calib Update   11/5/2018 9:47 AM   **Analyst Name**   ISP TOX

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

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

$y = 0.022051 * x + 0.013241$
$R^2 = 0.99877600$
Type:Linear, Origin:Ignore, Weight:1/x

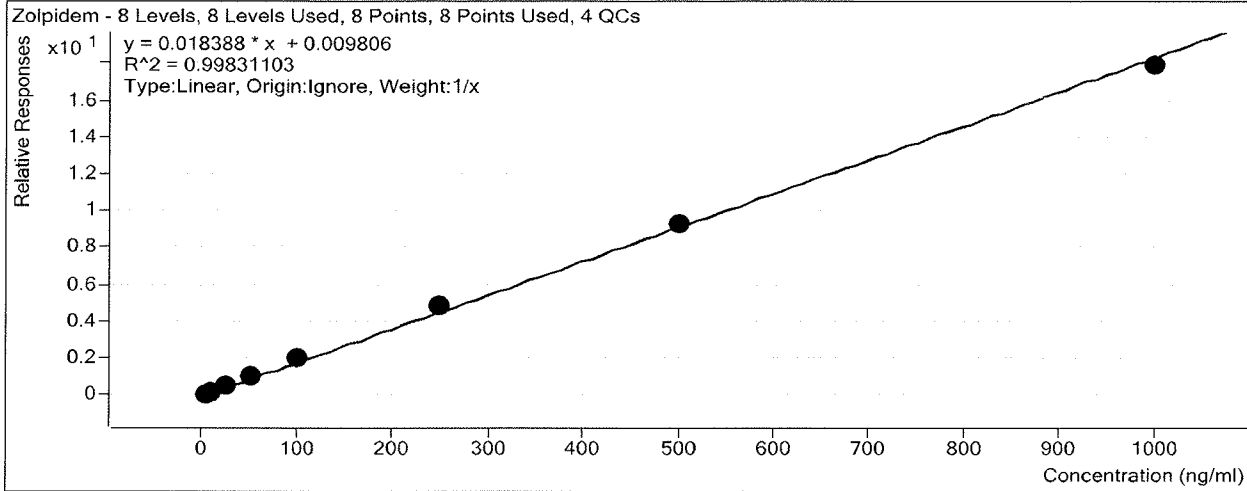| Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☑	5	4.7	94.7
a cal 2-10ng	2	☑	10	8.9	89.0
a QC 10	2	☑	10	10.4	103.8
a cal 3-25ng	3	☑	25	24.9	99.7
a cal 4-50ng	4	☑	50	54.2	108.3
a cal 5-100ng	5	☑	100	104.2	104.2
a qc 100	5	☑	100	110.1	110.1
a cal 6-250ng	6	☑	250	265.8	106.3
a QC 250	6	☑	250	284.7	113.9
a cal 7-500ng	7	☑	500	500.1	100.0
a cal 8-1000ng	8	☑	1000	977.3	97.7
a qc 1000	8	☑	1000	1036.2	103.6

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1a-r.batch.bin

Last Calib Update   11/5/2018 9:47 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

$y = 0.021828 * x + 0.006151$
$R^2 = 0.99027928$
Type:Linear, Origin:Ignore, Weight:1/x^2

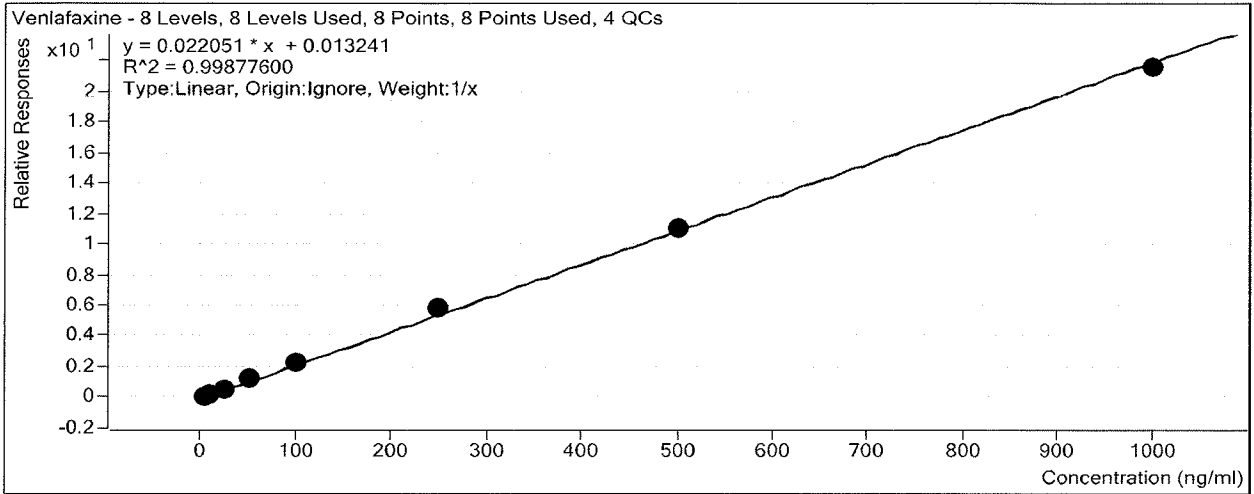| Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☑	5	4.9	97.6
a cal 2-10ng	2	☑	10	10.0	100.1
a QC 10	2	☑	10	11.1	110.8
a cal 3-25ng	3	☑	25	26.2	104.9
a cal 4-50ng	4	☑	50	56.2	112.3
a cal 5-100ng	5	☑	100	105.9	105.9
a qc 100	5	☑	100	116.9	116.9
a cal 6-250ng	6	☑	250	253.4	101.4
a QC 250	6	☑	250	296.1	118.5
a cal 7-500ng	7	☑	500	471.0	94.2
a cal 8-1000ng	8	☑	1000	836.9	83.7
a qc 1000	8	☑	1000	1122.5	112.3

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1a-r.batch.bin

Last Calib Update   11/5/2018 9:47 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

$y = 0.022785 * x - 0.011029$
$R^2 = 0.99861229$
Type:Linear, Origin:Ignore, Weight:1/x^2

Relative Responses — x10^1 — Concentration (ng/ml)
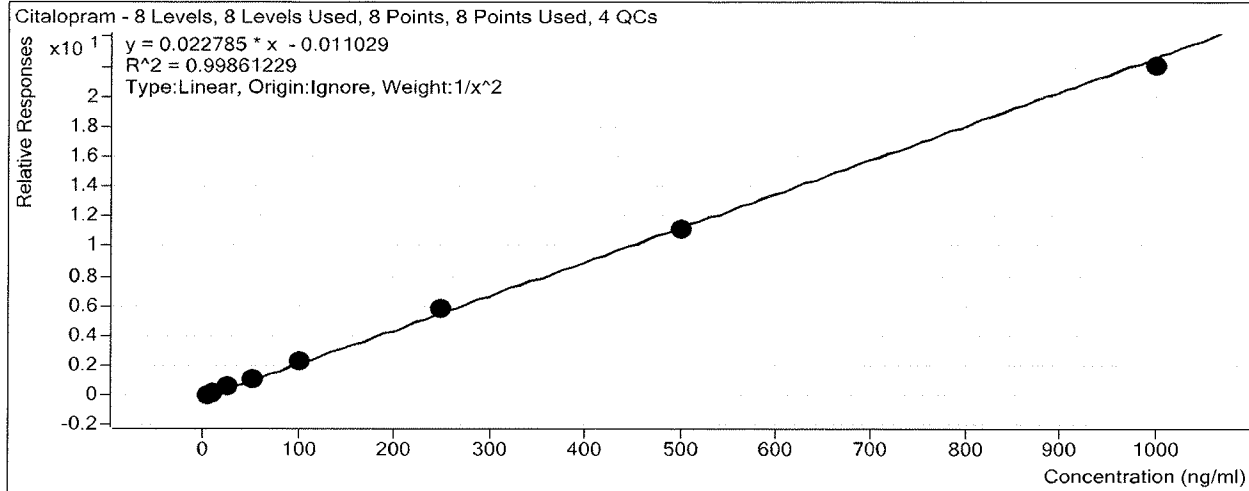
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☑	5	5.0	100.1
a cal 2-10ng	2	☑	10	9.8	97.9
a QC 10	2	☑	10	9.8	97.6
a cal 3-25ng	3	☑	25	26.4	105.7
a cal 4-50ng	4	☑	50	48.5	97.1
a cal 5-100ng	5	☑	100	103.0	103.0
a qc 100	5	☑	100	100.9	100.9
a cal 6-250ng	6	☑	250	254.1	101.6
a QC 250	6	☑	250	268.0	107.2
a cal 7-500ng	7	☑	500	489.7	97.9
a cal 8-1000ng	8	☑	1000	966.7	96.7
a qc 1000	8	☑	1000	972.6	97.3

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1a-r.batch.bin

Last Calib Update   11/5/2018 9:47 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

$y = 0.023277 * x - 0.013560$

$R^2 = 0.99979779$

Type:Linear, Origin:Ignore, Weight:1/x

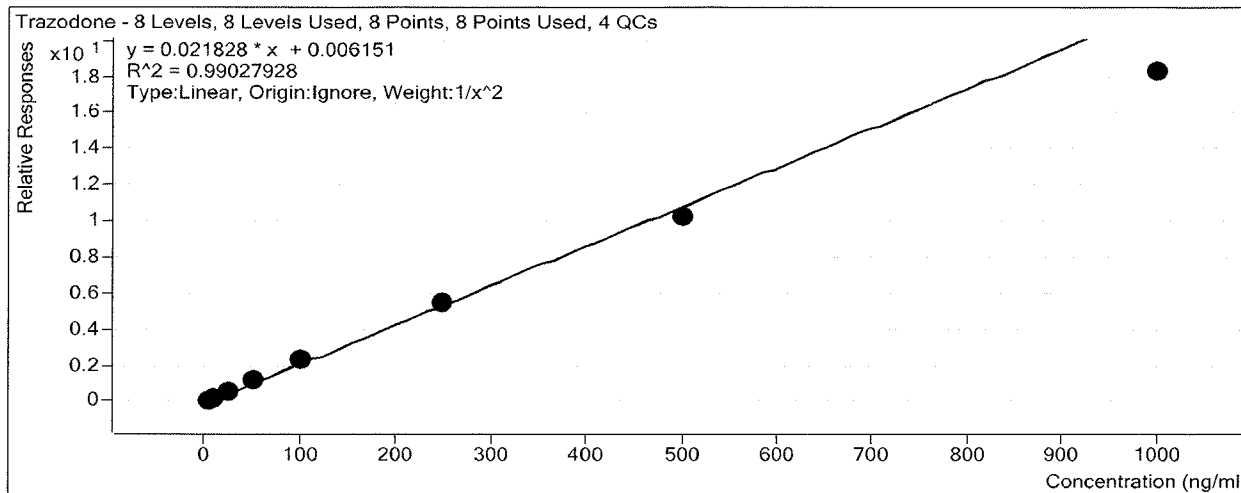| Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☑	5	4.9	98.2
a cal 2-10ng	2	☑	10	10.8	107.5
a QC 10	2	☑	10	10.1	100.5
a cal 3-25ng	3	☑	25	22.9	91.8
a cal 4-50ng	4	☑	50	52.2	104.4
a cal 5-100ng	5	☑	100	98.5	98.5
a qc 100	5	☑	100	102.3	102.3
a cal 6-250ng	6	☑	250	248.6	99.4
a QC 250	6	☑	250	278.6	111.4
a cal 7-500ng	7	☑	500	500.2	100.0
a cal 8-1000ng	8	☑	1000	1002.0	100.2
a qc 1000	8	☑	1000	993.2	99.3

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1a-r.batch.bin

Last Calib Update   11/5/2018 9:47 AM   **Analyst Name**   ISP TOX

__Target Compound__   *Diphenhydramine*
Internal Standard   *Diphenhydramine-D3*

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

$y = 0.022156 * x + 0.005420$
$R^2 = 0.99930386$
Type:Linear, Origin:Ignore, Weight:1/x

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☑	5	4.8	96.3
a cal 2-10ng	2	☑	10	9.3	93.3
a QC 10	2	☑	10	10.5	104.7
a cal 3-25ng	3	☑	25	25.7	102.7
a cal 4-50ng	4	☑	50	52.1	104.2
a cal 5-100ng	5	☑	100	102.8	102.8
a qc 100	5	☑	100	107.5	107.5
a cal 6-250ng	6	☑	250	259.6	103.9
a QC 250	6	☑	250	295.1	118.0
a cal 7-500ng	7	☑	500	482.5	96.5
a cal 8-1000ng	8	☑	1000	1003.2	100.3
a qc 1000	8	☑	1000	989.1	98.9

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1a-r.batch.bin

Last Calib Update   11/5/2018 9:47 AM   **Analyst Name**   ISP TOX

Target Compound   Promethazine
Internal Standard   Promethazine-D3

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

Relative Responses — x10^1

$y = 0.018209 * x - 0.008398$
$R^2 = 0.99710408$
Type:Linear, Origin:Ignore, Weight:1/x^2

Concentration (ng/ml)
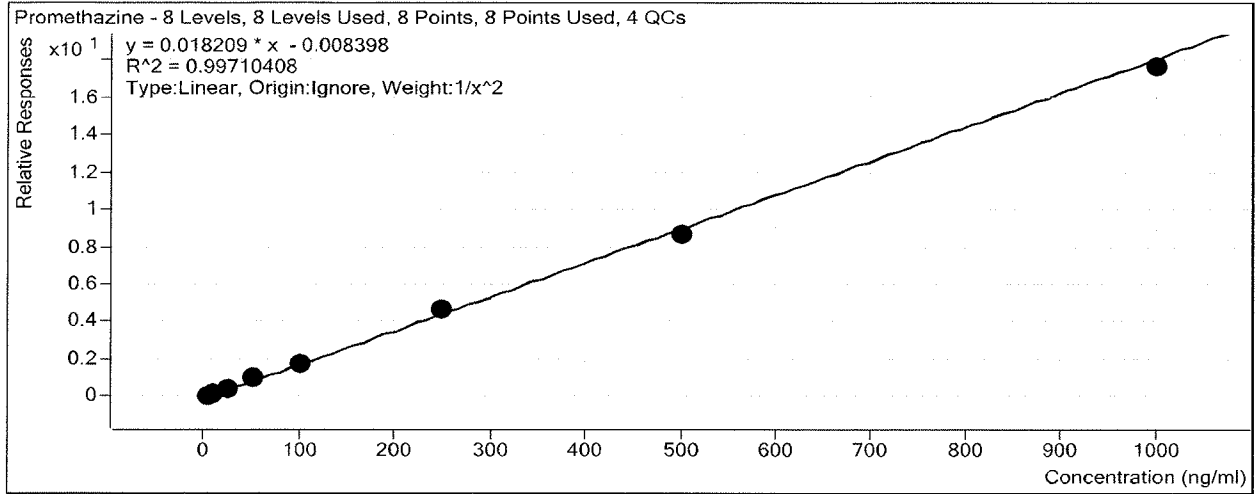
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☑	5	5.1	101.5
a cal 2-10ng	2	☑	10	9.5	94.9
a QC 10	2	☑	10	10.5	105.0
a cal 3-25ng	3	☑	25	25.3	101.1
a cal 4-50ng	4	☑	50	54.5	108.9
a cal 5-100ng	5	☑	100	98.0	98.0
a qc 100	5	☑	100	101.8	101.8
a cal 6-250ng	6	☑	250	257.9	103.2
a QC 250	6	☑	250	281.6	112.6
a cal 7-500ng	7	☑	500	477.7	95.5
a cal 8-1000ng	8	☑	1000	968.4	96.8
a qc 1000	8	☑	1000	1011.8	101.2

ISP Forensics
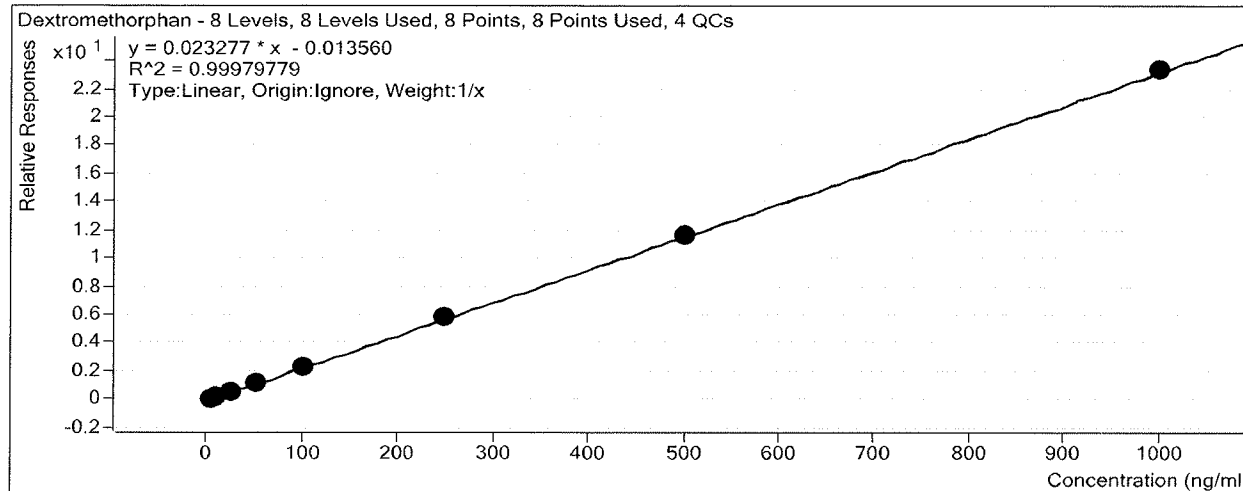# Calibration Curve Report

Batch Data Path   D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1a-r.batch.bin

Last Calib Update   11/5/2018 9:47 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 = 0.077269 * x - 0.087601
R^2 = 0.99284578
Type:Linear, Origin:Ignore, Weight:1/x^2

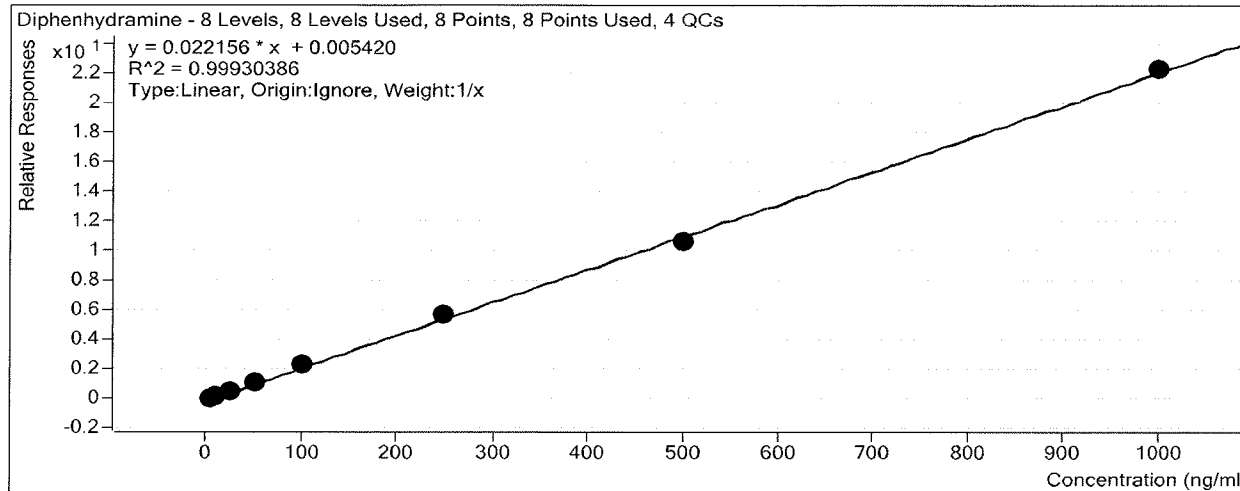| Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☑	5	5.2	103.2
a cal 2-10ng	2	☑	10	9.4	94.4
a QC 10	2	☑	10	11.0	110.4
a cal 3-25ng	3	☑	25	24.9	99.7
a cal 4-50ng	4	☑	50	49.1	98.3
a cal 5-100ng	5	☑	100	96.0	96.0
a qc 100	5	☑	100	103.4	103.4
a cal 6-250ng	6	☑	250	237.8	95.1
a QC 250	6	☑	250	246.4	98.5
a cal 7-500ng	7	☑	500	584.2	116.8
a cal 8-1000ng	8	☑	1000	964.8	96.5
a qc 1000	8	☑	1000	817.1	81.7

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1a-r.batch.bin

Last Calib Update   11/5/2018 9:47 AM   **Analyst Name**   ISP TOX

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

a-hydroxyalprazolam - 8 Levels, 5 Levels Used, 8 Points, 5 Points Used, 4 QCs

$y = 0.025419 * x - 0.012376$
$R^2 = 0.99936461$
Type:Linear, Origin:Ignore, Weight:$1/x^2$

Relative Responses / Concentration (ng/ml)

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☑	5	4.9	98.9
a cal 2-10ng	2	☑	10	10.2	102.2
a QC 10	2	☑	10	10.6	105.8
a cal 3-25ng	3	☑	25	24.9	99.8
a cal 4-50ng	4	☑	50	50.8	101.6
a cal 5-100ng	5	☑	100	97.5	97.5
a qc 100	5	☑	100	97.1	97.1
a cal 6-250ng	6	☐	250	440.0	176.0
a QC 250	6	☑	250	444.4	177.7
a cal 7-500ng	7	☐	500	452.0	90.4
a cal 8-1000ng	8	☐	1000	979.9	98.0
a qc 1000	8	☑	1000	1752.0	175.2

Batch Data Path   D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1a-r.batch.bin

Last Calib Update   11/5/2018 9:47 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

$y = 0.015290 * x - 0.044256$
$R^2 = 0.97415589$
Type:Linear, Origin:Ignore, Weight:$1/x^2$
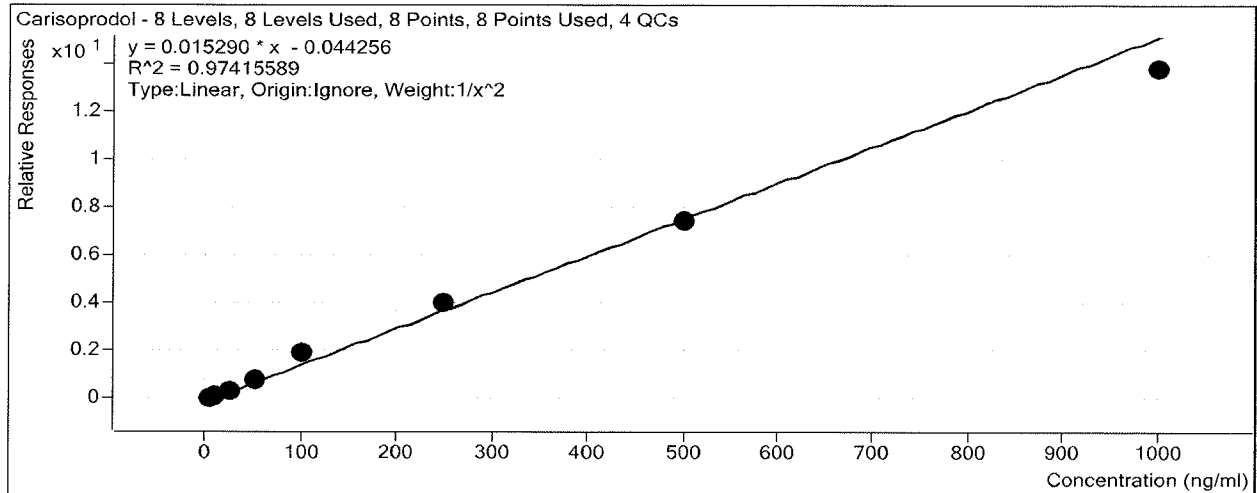
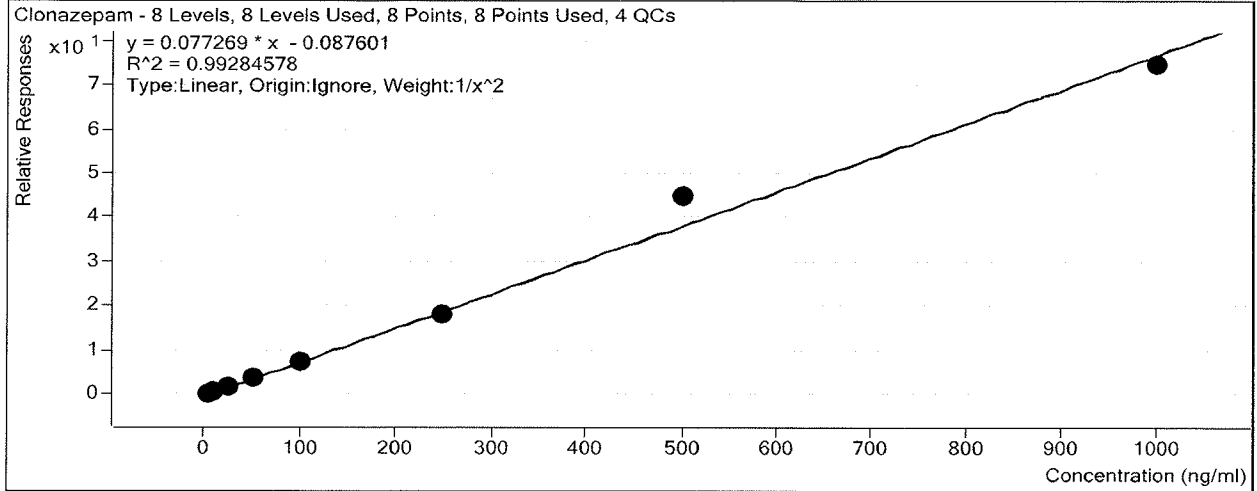| Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☑	5	5.4	108.3
a cal 2-10ng	2	☑	10	8.8	88.0
a QC 10	2	☑	10	14.4	143.6
a cal 3-25ng	3	☑	25	19.9	79.5
a cal 4-50ng	4	☑	50	52.8	105.5
a cal 5-100ng	5	☑	100	124.9	124.9
a qc 100	5	☑	100	126.4	126.4
a cal 6-250ng	6	☑	250	262.8	105.1
a QC 250	6	☑	250	277.3	110.9
a cal 7-500ng	7	☑	500	490.8	98.2
a cal 8-1000ng	8	☑	1000	905.9	90.6
a qc 1000	8	☑	1000	1115.0	111.5

✱ not evaluated

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1a-r.batch.bin

Last Calib Update   11/5/2018 9:47 AM   **Analyst Name**   ISP TOX

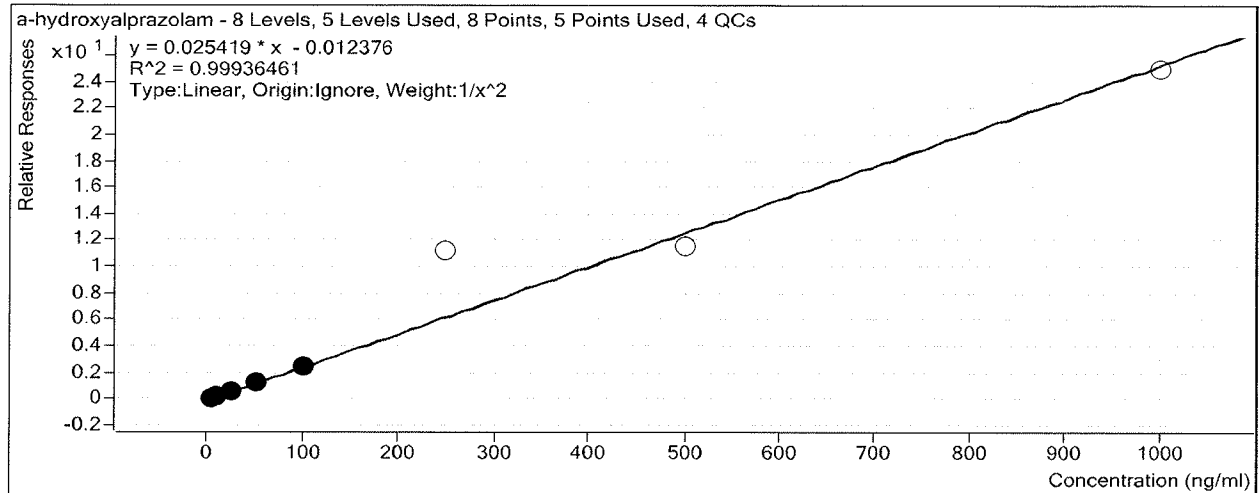*Target Compound*   *Lorazepam*
Internal Standard   *Clonazepam-D4*

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

$y = 0.031871 * x + 0.055028$
$R^2 = 0.98752698$
Type:Linear, Origin:Ignore, Weight:1/x
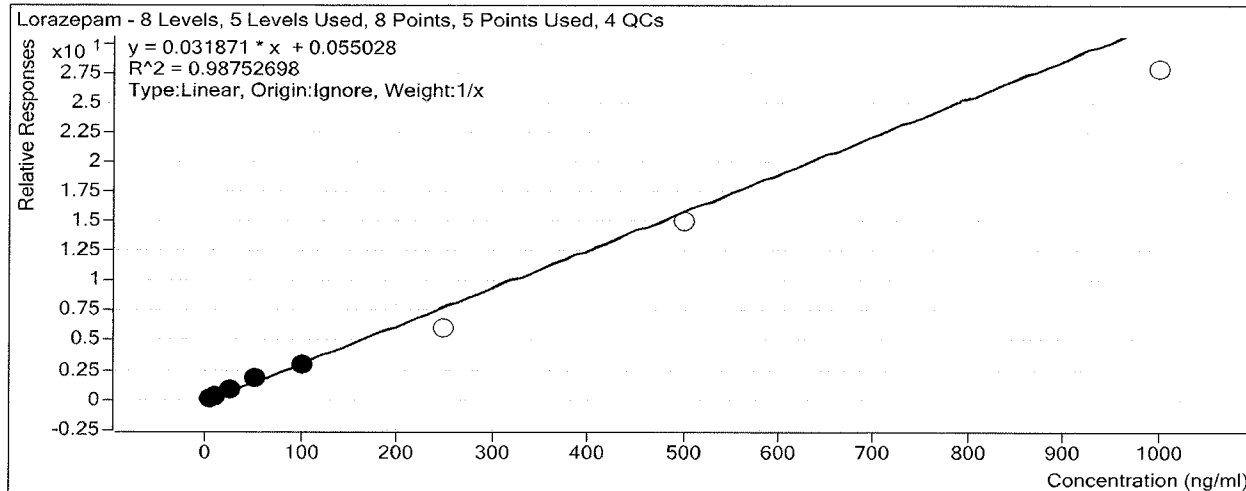
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☑	5	4.2	84.8
a cal 2-10ng	2	☑	10	10.4	104.1
a QC 10	2	☑	10	11.8	117.9
a cal 3-25ng	3	☑	25	26.5	106.1
a cal 4-50ng	4	☑	50	56.2	112.4
a cal 5-100ng	5	☑	100	92.6	92.6
a qc 100	5	☑	100	71.1	71.1
a cal 6-250ng	6	☐	250	188.5	75.4
a QC 250	6	☐	250	165.0	66.0
a cal 7-500ng	7	☐	500	470.1	94.0
a cal 8-1000ng	8	☐	1000	869.6	87.0
a qc 1000	8	☐	1000	601.1	60.1

Ø not evaluated

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1a-r.batch.bin

Last Calib Update   11/5/2018 9:47 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

$y = 0.026245 * x - 0.004402$
$R^2 = 0.99927632$
Type:Linear, Origin:Ignore, Weight:$1/x^2$
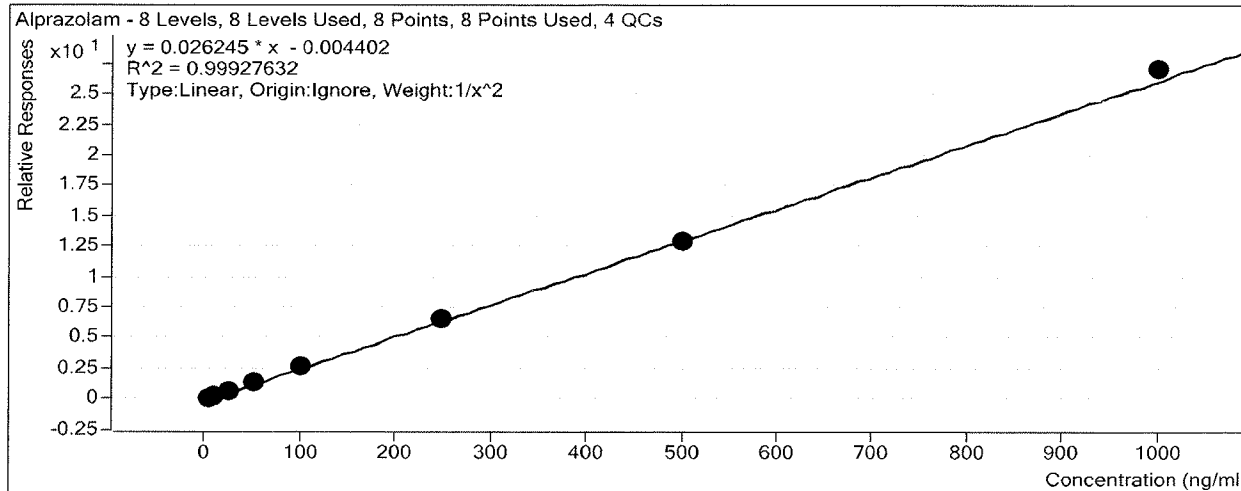
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☑	5	5.1	101.6
a cal 2-10ng	2	☑	10	9.7	97.3
a QC 10	2	☑	10	11.2	112.0
a cal 3-25ng	3	☑	25	24.3	97.3
a cal 4-50ng	4	☑	50	51.5	103.0
a cal 5-100ng	5	☑	100	99.4	99.4
a qc 100	5	☑	100	103.8	103.8
a cal 6-250ng	6	☑	250	250.0	100.0
a QC 250	6	☑	250	286.2	114.5
a cal 7-500ng	7	☑	500	491.6	98.3
a cal 8-1000ng	8	☑	1000	1030.0	103.0
a qc 1000	8	☑	1000	1077.0	107.7

ISP FORENSICS - Cd'A Instrument # 62340
Multi-Drug Confirmatory Analysis Report

Batch Data Path	D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1a-r.batch.bin		
Analysis Time	11/5/2018 9:47 AM	**Analyst Name**	ISP Tox
Report Time	11/5/2018 9:52 AM	**Reporter Name**	ISP Tox
Last Calib Update	11/5/2018 9:47 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-10-31 15:09	**Data File**	a cal 1-5ng.d
Sample Type	Calibration	**Sample Name**	a cal 1-5ng
Dilution	1	**Acq Method**	a1 mdq 618.m
Position	P2-A1	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28 Panel 1

Sample Chromatogram

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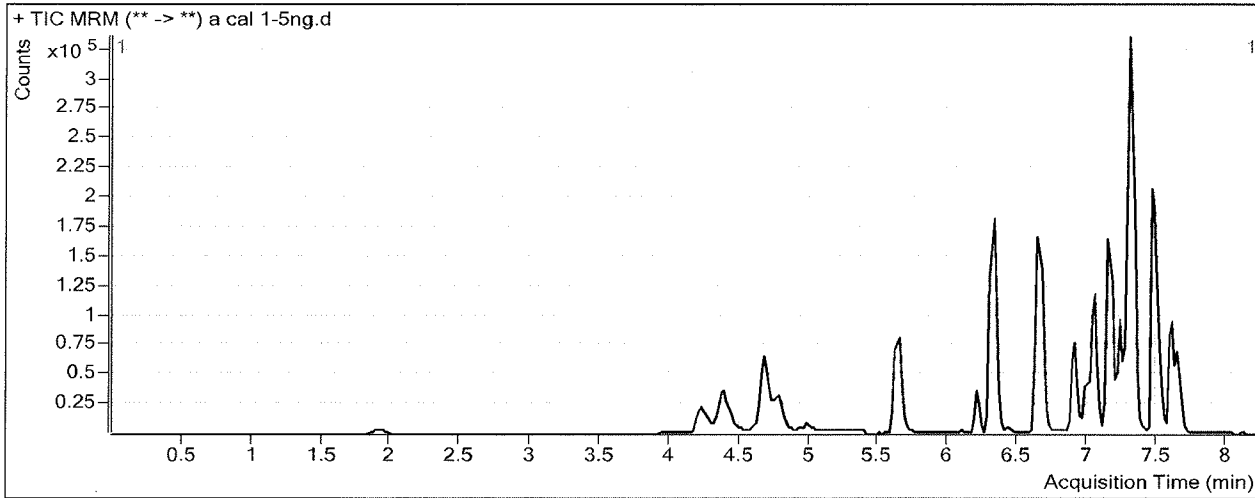
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.308	930	1891	0.4920	5.4575
Hydromorphone	Hydromorphone-D6	1.949	3544	24617	0.1440	5.0705
Codeine	Codeine-D6	4.056	1757	11937	0.1472	5.2194
Amphetamine	Amphetamine-D11	4.383	63944	94097	0.6796	2.3999
Oxycodone	Oxycodone-D6	4.429	8868	81925	0.1082	5.0269
Hydrocodone	Hydrocodone-D6	4.754	5735	62632	0.0916	3.7319
Methamphetamine	Methamphetamine-D11	4.782	54279	230944	0.2350	4.4037
~~Norhydrocodone~~	~~Norhydrocodone-D3~~	~~4.799~~	~~490~~	~~26658~~	~~0.0184~~	~~17.3298~~
6-MAM	6-MAM-D6	4.988	205	14579	0.0141	0.4476
~~Phentermine~~	~~Phentermine-D5~~	~~5.686~~	~~10799~~	~~286042~~	~~0.0378~~	~~4.8053~~
Dextrorphan	Dextrorphan-D3	6.204	5524	85063	0.0649	5.0202
7-aminoclonazepam	7-Aminoclonazepam-D4	6.331	8515	70844	0.1202	4.9626
Tramadol	Tramadol-13C-D3	6.323	47495	436138	0.1089	4.8748
Metoprolol	Oxycodone-D6	6.437	6836	81925	0.0834	5.1672
Doxylamine	Doxylamine-D5	6.662	48712	464922	0.1048	4.9236
Bupropion	Bupropion-D9	6.930	25916	210157	0.1233	4.9616
Meprobamate	Meprobamate-D7	7.012	6630	87889	0.0754	4.8260
Zolpidem	Zolpidem-D6	7.061	28121	315580	0.0891	4.3127
Venlafaxine	Venlafaxine-D6	7.145	45671	388300	0.1176	4.7334
Trazodone	Trazodone-D6	7.256	27669	245673	0.1126	4.8779
Citalopram	Citalopram-D6	7.278	27761	269572	0.1030	5.0037
Dextromethorphan	Dextromethorphan-D3	7.288	6643	65927	0.1008	4.9114
Diphenhydramine	Diphenhydramine-D3	7.312	55475	495043	0.1121	4.8132

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Promethazine	Promethazine-D3	7.487	42035	500161	0.0840	5.0768
Clonazepam	Clonazepam-D4	7.523	9020	29007	0.3110	5.1581
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.581	2398	21163	0.1133	4.9452
~~Carisoprodol~~	~~Carisoprodol-D7~~	~~7.592~~	~~7772~~	~~201854~~	~~0.0385~~	~~5.4127~~
~~Lorazepam~~	~~Clonazepam-D4~~	~~7.623~~	~~5514~~	~~29007~~	~~0.1901~~	~~4.2382~~
Alprazolam	Alprazolam-D5	7.647	14283	110767	0.1289	5.0809

ISP FORENSICS - Cd'A Instrument # 62340
Multi-Drug Confirmatory Analysis Report

Batch Data Path	D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1a-r.batch.bin
Analysis Time	11/5/2018 9:47 AM **Analyst Name** ISP Tox
Report Time	11/5/2018 9:52 AM **Reporter Name** ISP Tox
Last Calib Update	11/5/2018 9:47 AM **Batch State** Processed

Analysis Info

Acq Time	2018-10-31 15:34	**Data File**	a cal 2-10ng.d
Sample Type	Calibration	**Sample Name**	a cal 2-10ng
Dilution	1	**Acq Method**	a1 mdq 618.m
Position	P2-B1	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28 Panel 1

Sample Chromatogram
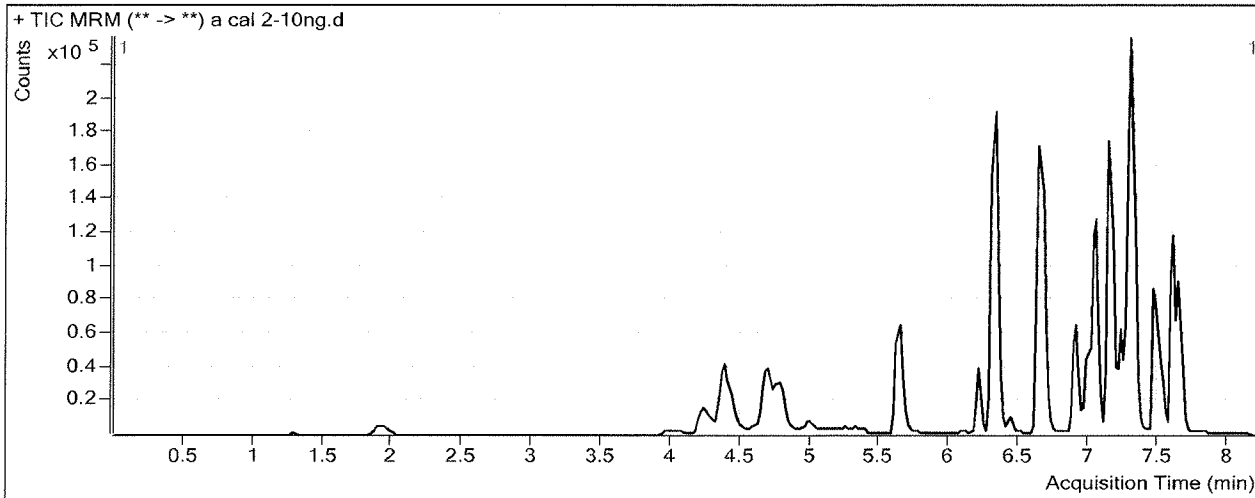
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.308	1753	1938	0.9044	9.8137
Hydromorphone	Hydromorphone-D6	1.949	7561	25740	0.2938	9.7802
Codeine	Codeine-D6	4.056	3411	12714	0.2683	9.4957
Amphetamine	Amphetamine-D11	4.383	80020	64476	1.2411	9.3429
Oxycodone	Oxycodone-D6	4.449	18187	83540	0.2177	9.8073
Hydrocodone	Hydrocodone-D6	4.754	11225	62819	0.1787	8.8918
Methamphetamine	Methamphetamine-D11	4.802	52383	125794	0.4164	10.4914
Norhydrocodone	Norhydrocodone-D3	4.779	899	24582	0.0366	20.9833
6-MAM	6-MAM-D6	5.008	386	15085	0.0256	0.8367
Phentermine	Phentermine-D5	5.686	16248	217225	0.0748	10.4114
Dextrorphan	Dextrorphan-D3	6.204	10751	77581	0.1386	9.9191
7-aminoclonazepam	7-Aminoclonazepam-D4	6.331	18704	71216	0.2626	10.1358
Tramadol	Tramadol-13C-D3	6.323	93526	420702	0.2223	10.0677
Metoprolol	Oxycodone-D6	6.437	12892	83540	0.1543	9.4081
Doxylamine	Doxylamine-D5	6.662	93036	427959	0.2174	10.0619
Bupropion	Bupropion-D9	6.930	39550	159370	0.2482	10.0107
Meprobamate	Meprobamate-D7	7.012	14625	90533	0.1615	10.1259
Zolpidem	Zolpidem-D6	7.061	56958	329186	0.1730	8.8765
Venlafaxine	Venlafaxine-D6	7.145	75183	358752	0.2096	8.9032
Trazodone	Trazodone-D6	7.256	34961	155644	0.2246	10.0088
Citalopram	Citalopram-D6	7.278	36973	174465	0.2119	9.7850
Dextromethorphan	Dextromethorphan-D3	7.288	8002	33803	0.2367	10.7525
Diphenhydramine	Diphenhydramine-D3	7.312	65237	307446	0.2122	9.3324

not evaluated

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Promethazine	Promethazine-D3	7.487	30775	187179	0.1644	9.4907
Clonazepam	Clonazepam-D4	7.523	18772	29234	0.6421	9.4439
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.581	5566	22493	0.2474	10.2214
~~Carisoprodol~~	~~Carisoprodol-D7~~	~~7.592~~	~~19831~~	~~219455~~	~~0.0904~~	~~8.8044~~
~~Lorazepam~~	~~Clonazepam-D4~~	~~7.623~~	~~11306~~	~~29234~~	~~0.3868~~	~~10.4085~~
Alprazolam	Alprazolam-D5	7.647	28479	113494	0.2509	9.7288

ISP FORENSICS - Cd'A Instrument # 62340
Multi-Drug Confirmatory Analysis Report

Batch Data Path	D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1a-r.batch.bin		
Analysis Time	11/5/2018 9:47 AM	**Analyst Name**	ISP Tox
Report Time	11/5/2018 9:52 AM	**Reporter Name**	ISP Tox
Last Calib Update	11/5/2018 9:47 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-10-31 16:00	**Data File**	a cal 3-25ng.d
Sample Type	Calibration	**Sample Name**	a cal 3-25ng
Dilution	1	**Acq Method**	a1 mdq 618.m
Position	P2-C1	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28 Panel 1

Sample Chromatogram
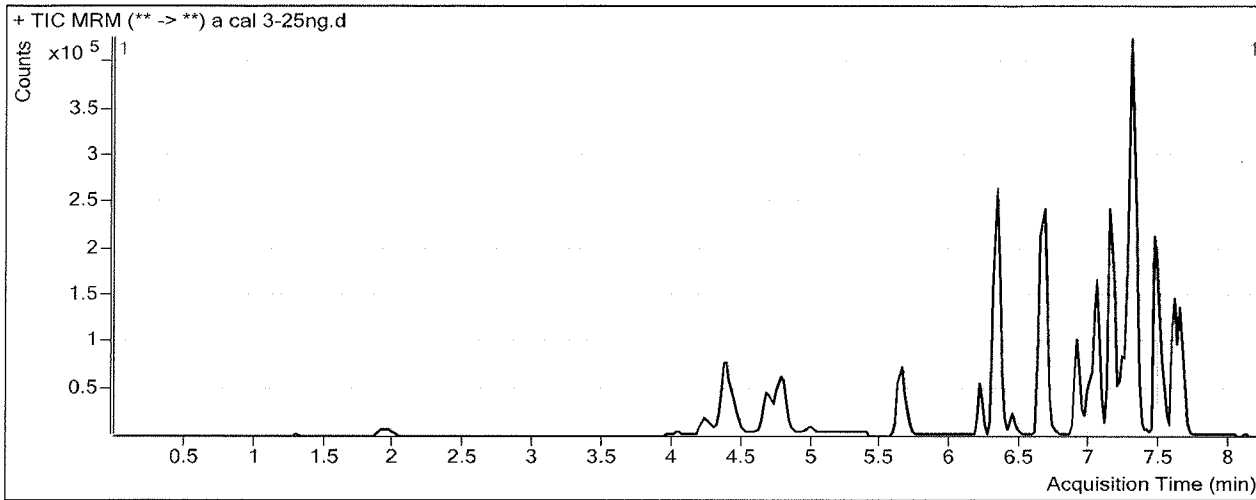
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.308	4265	1753	2.4332	25.9622
Hydromorphone	Hydromorphone-D6	1.949	18132	23549	0.7700	24.7539
Codeine	Codeine-D6	4.056	8663	12208	0.7096	25.0878
Amphetamine	Amphetamine-D11	4.383	201678	74325	2.7135	27.5479
Oxycodone	Oxycodone-D6	4.449	45575	81237	0.5610	24.8003
Hydrocodone	Hydrocodone-D6	4.754	29675	63916	0.4643	25.8067
Methamphetamine	Methamphetamine-D11	4.802	136800	158513	0.8630	25.4800
Norhydrocodone	Norhydrocodone-D3	4.799	2282	24573	0.0929	32.3016
6-MAM	6-MAM-D6	4.988	1088	15308	0.0710	2.3687
Phentermine	Phentermine-D5	5.686	42752	241022	0.1774	25.9340
Dextrorphan	Dextrorphan-D3	6.204	28726	80234	0.3580	24.5192
7-aminoclonazepam	7-Aminoclonazepam-D4	6.331	47300	71168	0.6646	24.7356
Tramadol	Tramadol-13C-D3	6.323	248872	427569	0.5821	26.5401
Metoprolol	Oxycodone-D6	6.437	32906	81237	0.4051	24.4101
Doxylamine	Doxylamine-D5	6.662	248619	444267	0.5596	25.6754
Bupropion	Bupropion-D9	6.910	108313	174936	0.6192	25.0148
Meprobamate	Meprobamate-D7	7.012	36677	81703	0.4489	27.8151
Zolpidem	Zolpidem-D6	7.061	159309	320115	0.4977	26.5314
Venlafaxine	Venlafaxine-D6	7.145	205347	364737	0.5630	24.9310
Trazodone	Trazodone-D6	7.256	123564	213498	0.5788	26.2332
Citalopram	Citalopram-D6	7.278	130997	221568	0.5912	26.4323
Dextromethorphan	Dextromethorphan-D3	7.288	27530	52897	0.5204	22.9410
Diphenhydramine	Diphenhydramine-D3	7.312	232409	404561	0.5745	25.6835

handwritten: not evaluated (with marks next to Norhydrocodone and Phentermine rows)

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Promethazine	Promethazine-D3	7.467	161840	358307	0.4517	25.2671
Clonazepam	Clonazepam-D4	7.523	48586	26428	1.8384	24.9263
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.581	11974	19264	0.6216	24.9401
~~Carisoprodol~~	Carisoprodol-D7	7.592	51855	199834	0.2595	~~19.8659~~
~~Lorazepam~~	Clonazepam-D4	7.623	23797	26428	0.9004	~~26.5260~~
Alprazolam	Alprazolam-D5	7.647	70828	111670	0.6343	24.3351

ISP FORENSICS - Cd'A Instrument # 62340
Multi-Drug Confirmatory Analysis Report

Batch Data Path	D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1a-r.batch.bin		
Analysis Time	11/5/2018 9:47 AM	**Analyst Name**	ISP Tox
Report Time	11/5/2018 9:52 AM	**Reporter Name**	ISP Tox
Last Calib Update	11/5/2018 9:47 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-10-31 16:25	**Data File**	a cal 4-50ng.d
Sample Type	Calibration	**Sample Name**	a cal 4-50ng
Dilution	1	**Acq Method**	a1 mdq 618.m
Position	P2-D1	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28 Panel 1

Sample Chromatogram

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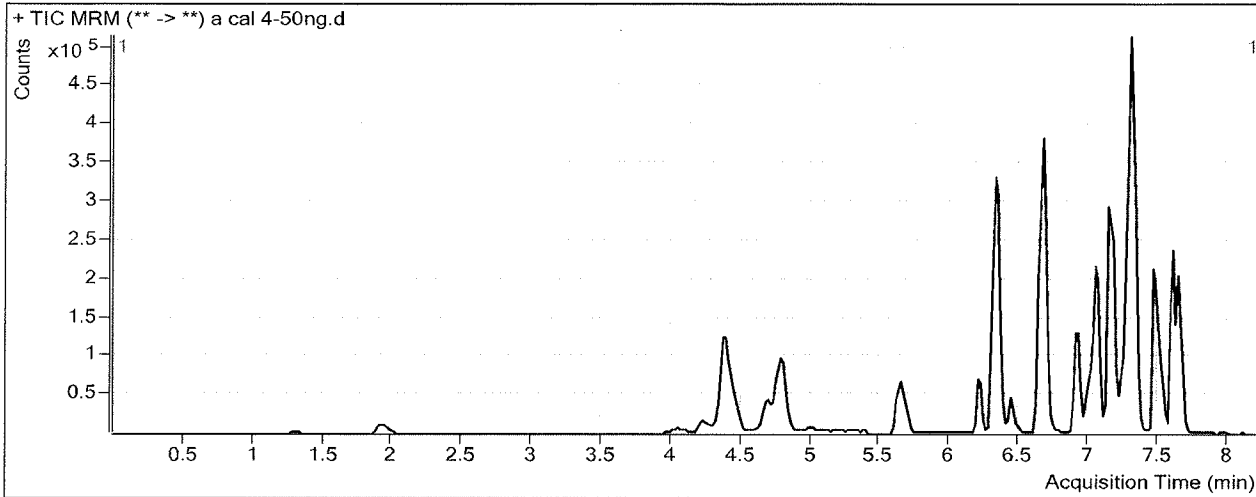
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.308	7676	1590	4.8266	51.2444
Hydromorphone	Hydromorphone-D6	1.949	34027	21604	1.5750	50.0673
Codeine	Codeine-D6	4.056	16621	11455	1.4509	51.2737
Amphetamine	Amphetamine-D11	4.383	348065	69970	4.9745	55.5040
Oxycodone	Oxycodone-D6	4.449	92037	76353	1.2054	52.9435
Hydrocodone	Hydrocodone-D6	4.754	57891	57637	1.0044	57.7953
Methamphetamine	Methamphetamine-D11	4.802	236600	138281	1.7110	53.9395
Norhydrocodone	Norhydrocodone-D3	4.799	4402	22834	0.1928	52.3956
6-MAM	6-MAM-D6	5.008	2171	13802	0.1573	5.2765
Phentermine	Phentermine-D5	5.686	79213	216774	0.3654	54.3898
Dextrorphan	Dextrorphan-D3	6.204	56618	74247	0.7626	51.4327
7-aminoclonazepam	7-Aminoclonazepam-D4	6.331	94256	66837	1.4102	51.8155
Tramadol	Tramadol-13C-D3	6.341	477417	396219	1.2049	55.0604
Metoprolol	Oxycodone-D6	6.437	63069	76353	0.8260	49.5969
Doxylamine	Doxylamine-D5	6.662	483079	414614	1.1651	53.3014
Bupropion	Bupropion-D9	6.930	204893	153487	1.3349	53.9623
Meprobamate	Meprobamate-D7	7.012	68255	77006	0.8864	54.7423
Zolpidem	Zolpidem-D6	7.061	303325	306862	0.9885	53.2236
Venlafaxine	Venlafaxine-D6	7.145	398798	330174	1.2078	54.1738
Trazodone	Trazodone-D6	7.256	213221	173097	1.2318	56.1513
Citalopram	Citalopram-D6	7.278	197087	180017	1.0948	48.5348
Dextromethorphan	Dextromethorphan-D3	7.288	46162	38439	1.2009	52.1760
Diphenhydramine	Diphenhydramine-D3	7.312	393748	339358	1.1603	52.1230

not evaluated

a cal 4

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Promethazine	Promethazine-D3	7.467	248532	252723	0.9834	54.4697
Clonazepam	Clonazepam-D4	7.523	75668	20403	3.7087	49.1304
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.581	22357	17477	1.2793	50.8135
Carisoprodol	Carisoprodol-D7	7.612	142712	187179	0.7624	52.7597
Lorazepam	Clonazepam-D4	7.623	37681	20403	1.8468	56.2205
Alprazolam	Alprazolam-D5	7.647	138001	102440	1.3471	51.4975

ISP FORENSICS - Cd'A Instrument # 62340
Multi-Drug Confirmatory Analysis Report

Batch Data Path	D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1a-r.batch.bin		
Analysis Time	11/5/2018 9:47 AM	**Analyst Name**	ISP Tox
Report Time	11/5/2018 9:52 AM	**Reporter Name**	ISP Tox
Last Calib Update	11/5/2018 9:47 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-10-31 16:51	**Data File**	a cal 5-100ng.d
Sample Type	Calibration	**Sample Name**	a cal 5-100ng
Dilution	1	**Acq Method**	a1 mdq 618.m
Position	P2-E1	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28 Panel 1

Sample Chromatogram

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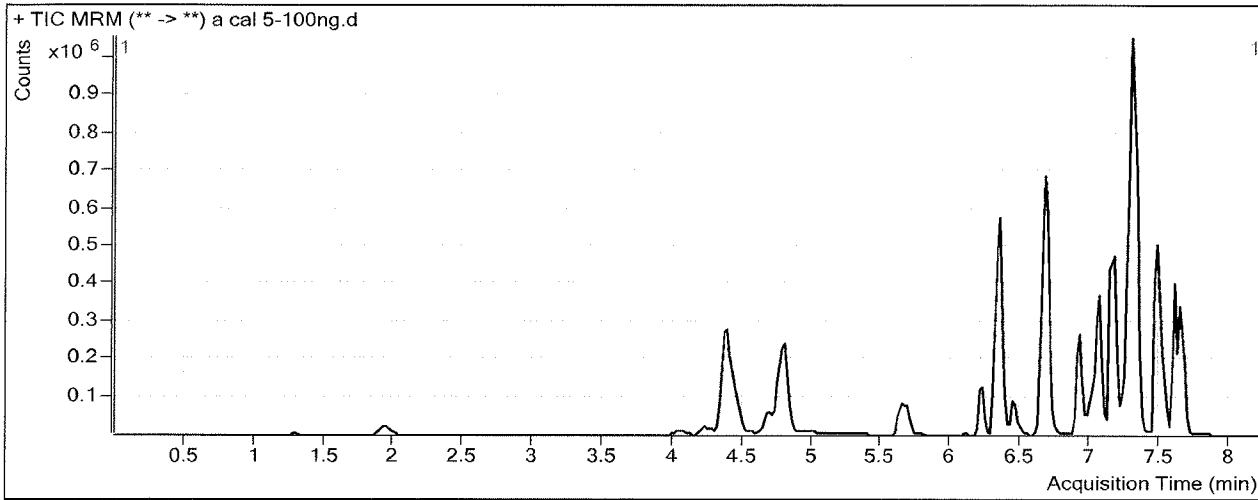
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.308	16616	1767	9.4040	99.5951
Hydromorphone	Hydromorphone-D6	1.949	73797	23734	3.1093	98.3128
Codeine	Codeine-D6	4.056	32958	11811	2.7904	98.5934
Amphetamine	Amphetamine-D11	4.383	834352	89599	9.3121	109.1366
Oxycodone	Oxycodone-D6	4.449	185646	80091	2.3179	101.5303
Hydrocodone	Hydrocodone-D6	4.774	122153	65505	1.8648	108.7525
Methamphetamine	Methamphetamine-D11	4.802	632233	208606	3.0308	98.2320
Norhydrocodone	Norhydrocodone-D3	4.799	9789	24319	0.4025	94.5601
6-MAM	6-MAM-D6	5.008	4610	15771	0.2923	9.8258
Phentermine	Phentermine-D5	5.686	191222	269723	0.7090	106.3765
Dextrorphan	Dextrorphan-D3	6.204	128901	84600	1.5236	102.0663
7-aminoclonazepam	7-Aminoclonazepam-D4	6.331	188907	69455	2.7199	99.3790
Tramadol	Tramadol-13C-D3	6.341	1030226	459746	2.2409	102.4937
Metoprolol	Oxycodone-D6	6.437	136026	80091	1.6984	101.7910
Doxylamine	Doxylamine-D5	6.662	1060940	479929	2.2106	101.0009
Bupropion	Bupropion-D9	6.930	457899	187301	2.4447	98.8457
Meprobamate	Meprobamate-D7	7.012	125746	80000	1.5718	96.9367
Zolpidem	Zolpidem-D6	7.061	644082	319335	2.0169	109.1557
Venlafaxine	Venlafaxine-D6	7.165	875395	378838	2.3107	104.1889
Trazodone	Trazodone-D6	7.256	527057	227469	2.3171	105.8706
Citalopram	Citalopram-D6	7.278	521866	223319	2.3369	103.0463
Dextromethorphan	Dextromethorphan-D3	7.309	130698	57372	2.2781	98.4513
Diphenhydramine	Diphenhydramine-D3	7.312	1061542	465123	2.2823	102.7635

handwritten annotations: "to" marks next to Norhydrocodone and Phentermine rows; "not evaluated" at bottom left

ISP FORENSICS - Cd'A Instrument # 62340
Multi-Drug Confirmatory Analysis Report

a Cal 5

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Promethazine	Promethazine-D3	7.487	766057	431269	1.7763	98.0136
Clonazepam	Clonazepam-D4	7.523	154856	21131	7.3284	95.9762
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.581	44937	18224	2.4659	97.4951
~~Carisoprodol~~	Carisoprodol-D7	7.612	283122	151833	1.8647	124.8500
Lorazepam	Clonazepam-D4	7.623	63530	21131	3.0065	92.6069
Alprazolam	Alprazolam-D5	7.647	261248	100270	2.6054	99.4423

Batch Data Path	D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1a-r.batch.bin
Analysis Time	11/5/2018 9:47 AM
Report Time	11/5/2018 9:52 AM
Last Calib Update	11/5/2018 9:47 AM

Analyst Name	ISP Tox
Reporter Name	ISP Tox
Batch State	Processed

Analysis Info

Acq Time	2018-10-31 17:16	**Data File**	a cal 6-250ng.d
Sample Type	Calibration	**Sample Name**	a cal 6-250ng
Dilution	1	**Acq Method**	a1 mdq 618.m
Position	P2-F1	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28 Panel 1

Sample Chromatogram

+ TIC MRM (** -> **) a cal 6-250ng.d
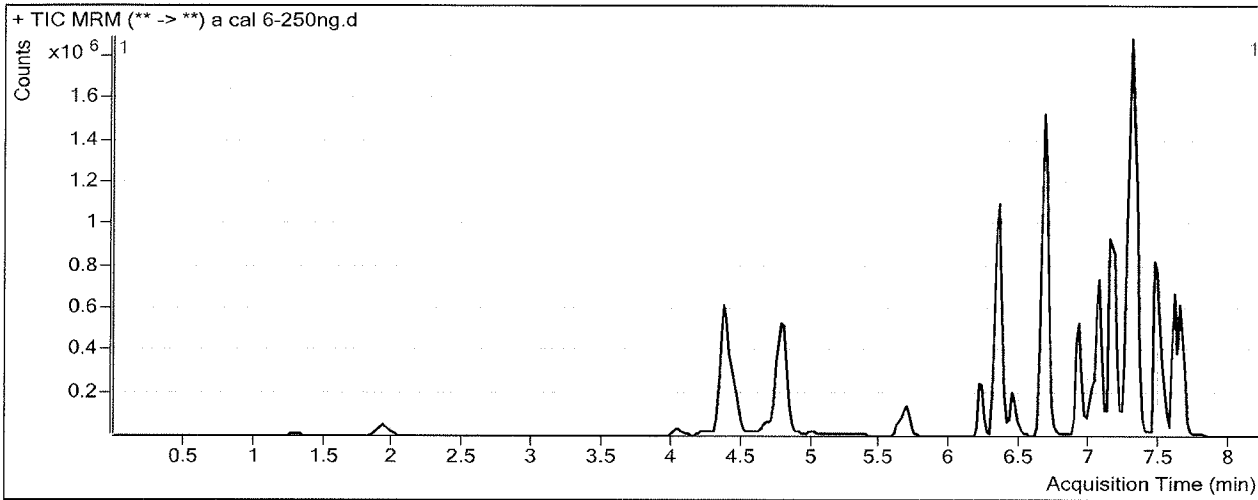
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.308	39834	1730	23.0233	243.4573
Hydromorphone	Hydromorphone-D6	1.949	180904	23695	7.6345	240.6021
Codeine	Codeine-D6	4.056	80272	11459	7.0050	247.4782
Amphetamine	Amphetamine-D11	4.383	1784283	92753	19.2369	231.8513
Oxycodone	Oxycodone-D6	4.449	436875	72699	6.0094	262.7483
Hydrocodone	Hydrocodone-D6	4.754	287208	60584	4.7406	279.0752
Methamphetamine	Methamphetamine-D11	4.802	1468049	196342	7.4770	247.4535
Norhydrocodone	Norhydrocodone-D3	4.799	25104	21336	1.1766	250.1994
6-MAM	6-MAM-D6	5.008	11120	14918	0.7454	25.0978
Phentermine	Phentermine-D5	5.686	434408	257965	1.6840	253.9249
Dextrorphan	Dextrorphan-D3	6.204	293179	78025	3.7575	250.6806
7-aminoclonazepam	7-Aminoclonazepam-D4	6.331	408701	61085	6.6907	243.5941
Tramadol	Tramadol-13C-D3	6.341	2359382	446921	5.2792	241.6142
Metoprolol	Oxycodone-D6	6.437	315554	72699	4.3406	259.8753
Doxylamine	Doxylamine-D5	6.662	2545831	454381	5.6029	255.7687
Bupropion	Bupropion-D9	6.930	1056759	170017	6.2156	251.3516
Meprobamate	Meprobamate-D7	7.012	268116	69035	3.8838	239.2478
Zolpidem	Zolpidem-D6	7.061	1474791	303516	4.8590	263.7181
Venlafaxine	Venlafaxine-D6	7.145	2046905	348492	5.8736	265.7610
Trazodone	Trazodone-D6	7.256	1184185	213863	5.5371	253.3936
Citalopram	Citalopram-D6	7.278	1095930	189688	5.7776	254.0546
Dextromethorphan	Dextromethorphan-D3	7.309	272935	47274	5.7735	248.6175
Diphenhydramine	Diphenhydramine-D3	7.312	2234756	388102	5.7582	259.6437

Not evaluated (handwritten)

a cal 6

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Promethazine	Promethazine-D3	7.467	1616583	344876	4.6874	257.8911
Clonazepam	Clonazepam-D4	7.523	283320	15491	18.2896	237.8339
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.581	90439	8096	11.1712	439.9679
Carisoprodol	Carisoprodol-D7	7.612	563689	141850	3.9738	262.7922
Lorazepam	Clonazepam-D4	7.623	93898	15491	6.0616	188.4640
Alprazolam	Alprazolam-D5	7.647	545595	83216	6.5564	249.9838

ISP FORENSICS - Cd'A Instrument # 62340
Multi-Drug Confirmatory Analysis Report

Batch Data Path	D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1a-r.batch.bin

Analysis Time	11/5/2018 9:47 AM	**Analyst Name**	ISP Tox
Report Time	11/5/2018 9:52 AM	**Reporter Name**	ISP Tox
Last Calib Update	11/5/2018 9:47 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-10-31 17:42	**Data File**	a cal 7-500ng.d
Sample Type	Calibration	**Sample Name**	a cal 7-500ng
Dilution	1	**Acq Method**	a1 mdq 618.m
Position	P2-G1	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28 Panel 1

Sample Chromatogram

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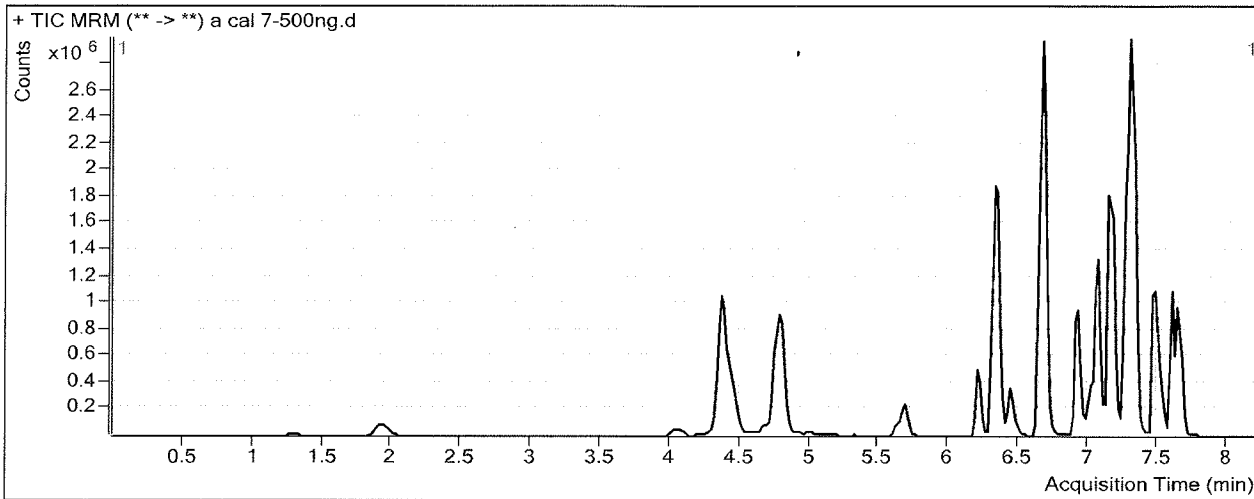
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.308	75254	1614	46.6224	492.7368
Hydromorphone	Hydromorphone-D6	1.949	366454	23230	15.7748	496.5615
Codeine	Codeine-D6	4.056	149607	10594	14.1214	498.8684
Amphetamine	Amphetamine-D11	4.383	3042418	88831	34.2495	417.4739
Oxycodone	Oxycodone-D6	4.449	841347	76710	10.9679	479.2991
Hydrocodone	Hydrocodone-D6	4.754	535253	61175	8.7495	516.5013
Methamphetamine	Methamphetamine-D11	4.802	2445181	180905	13.5164	450.1426
Norhydrocodone	Norhydrocodone-D3	4.799	48929	20109	2.4332	502.8449
6-MAM	6-MAM-D6	5.008	22780	15006	1.5181	51.1410
Phentermine	Phentermine-D5	5.686	783583	254146	3.0832	465.6637
Dextrorphan	Dextrorphan-D3	6.204	585989	77553	7.5559	503.3866
7-aminoclonazepam	7-Aminoclonazepam-D4	6.331	672767	56405	11.9274	433.7842
Tramadol	Tramadol-13C-D3	6.323	4600722	487473	9.4379	432.0342
Metoprolol	Oxycodone-D6	6.437	559053	76710	7.2878	436.2138
Doxylamine	Doxylamine-D5	6.662	5027889	478699	10.5032	479.3432
Bupropion	Bupropion-D9	6.930	1999442	164899	12.1253	490.3548
Meprobamate	Meprobamate-D7	7.012	473300	65615	7.2132	444.1958
Zolpidem	Zolpidem-D6	7.061	2826781	305022	9.2675	503.4658
Venlafaxine	Venlafaxine-D6	7.145	4239676	384029	11.0400	500.0508
Trazodone	Trazodone-D6	7.256	2173938	211329	10.2870	471.0017
Citalopram	Citalopram-D6	7.278	1805944	162026	11.1460	489.6690
Dextromethorphan	Dextromethorphan-D3	7.309	456721	39274	11.6291	500.1810
Diphenhydramine	Diphenhydramine-D3	7.312	3939798	368369	10.6952	482.4728

(handwritten) # Not evaluated

a Cal 7

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Promethazine	Promethazine-D3	7.487	2385473	274521	8.6896	477.6865
Clonazepam	Clonazepam-D4	7.523	420192	9326	45.0540	584.2143
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.581	144715	12609	11.4773	452.0109
Carisoprodol	Carisoprodol-D7	7.612	945537	126741	7.4604	490.8223
Lorazepam	Clonazepam-D4	7.623	140246	9326	15.0375	470.0983
Alprazolam	Alprazolam-D5	7.647	948390	73534	12.8973	491.5907

ISP FORENSICS - Cd'A Instrument # 62340
Multi-Drug Confirmatory Analysis Report

Batch Data Path	D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1a-r.batch.bin
Analysis Time	11/5/2018 9:47 AM **Analyst Name** ISP Tox
Report Time	11/5/2018 9:52 AM **Reporter Name** ISP Tox
Last Calib Update	11/5/2018 9:47 AM **Batch State** Processed

Analysis Info

Acq Time	2018-10-31 18:07	**Data File**	a cal 8-1000ng.d
Sample Type	Calibration	**Sample Name**	a cal 8-1000ng
Dilution	1	**Acq Method**	a1 mdq 618.m
Position	P2-H1	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28 Panel 1

Sample Chromatogram

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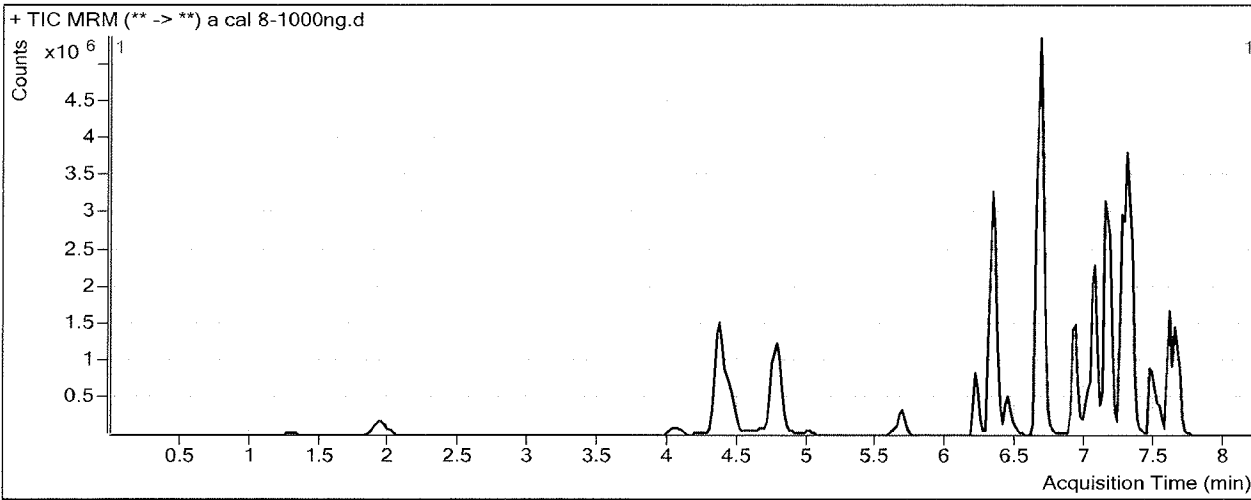
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.308	142691	1614	88.4281	934.3334
Hydromorphone	Hydromorphone-D6	1.949	711802	20778	34.2571	1077.7147
Codeine	Codeine-D6	4.056	277501	9764	28.4201	1003.9834
Amphetamine	Amphetamine-D11	4.383	4360690	76163	57.2549	701.9230
Oxycodone	Oxycodone-D6	4.449	1644461	74977	21.9329	958.1765
Hydrocodone	Hydrocodone-D6	4.754	971697	61149	15.8907	939.4454
Methamphetamine	Methamphetamine-D11	4.782	3008815	123706	24.3223	812.8058
Norhydrocodone	Norhydrocodone-D3	4.799	94385	19432	4.8572	990.2258
6-MAM	6-MAM-D6	4.988	46748	15945	2.9319	98.7902
Phentermine	Phentermine-D5	5.686	1175394	206162	5.7013	861.8568
Dextrorphan	Dextrorphan-D3	6.204	1002120	69177	14.4864	964.4600
7-aminoclonazepam	7-Aminoclonazepam-D4	6.331	953161	47068	20.2507	736.0770
Tramadol	Tramadol-13C-D3	6.323	8110920	486514	16.6715	763.2490
Metoprolol	Oxycodone-D6	6.437	894459	74977	11.9298	713.9456
Doxylamine	Doxylamine-D5	6.662	9368990	462548	20.2552	924.2667
Bupropion	Bupropion-D9	6.930	3282848	139429	23.5449	952.1980
Meprobamate	Meprobamate-D7	7.012	791942	59801	13.2430	815.3587
Zolpidem	Zolpidem-D6	7.061	5290509	296235	17.8592	970.7161
Venlafaxine	Venlafaxine-D6	7.145	7307873	338908	21.5630	977.2580
Trazodone	Trazodone-D6	7.256	3751236	205281	18.2737	836.9007
Citalopram	Citalopram-D6	7.278	2062285	93672	22.0161	966.7453
Dextromethorphan	Dextromethorphan-D3	7.288	516824	22173	23.3092	1001.9694
Diphenhydramine	Diphenhydramine-D3	7.312	5510848	247880	22.2319	1003.1679

Not evaluated

a cal 8

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Promethazine	Promethazine-D3	7.467	1938062	109959	17.6253	968.4258
Clonazepam	Clonazepam-D4	7.523	615884	8271	74.4624	964.8124
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.581	253037	10164	24.8951	979.8719
Carisoprodol	Carisoprodol-D7	7.612	1459505	105711	13.8066	905.8775
Lorazepam	Clonazepam-D4	7.623	229700	8271	27.7715	869.6470
Alprazolam	Alprazolam-D5	7.647	1530612	56628	27.0290	1030.0479

ISP FORENSICS - Cd'A Instrument # 62340
Multi-Drug Confirmatory Analysis Report

Batch Data Path	D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1b-r.batch.bin		
Analysis Time	11/5/2018 9:19 AM	**Analyst Name**	ISP Tox
Report Time	11/5/2018 9:23 AM	**Reporter Name**	ISP Tox
Last Calib Update	11/5/2018 9:19 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-10-31 18:58	**Data File**	b Negative control.d
Sample Type	Sample	**Sample Name**	b Negative control
Dilution	1	**Acq Method**	b1 mdq 618.m
Position	P2-E2	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28 Panel 1, negative

Sample Chromatogram

ISP FORENSICS - Cd'A Instrument # 62340
Multi-Drug Confirmatory Analysis Report

Batch Data Path	D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1b-r.batch.bin		
Analysis Time	11/5/2018 9:19 AM	**Analyst Name**	ISP Tox
Report Time	11/5/2018 9:23 AM	**Reporter Name**	ISP Tox
Last Calib Update	11/5/2018 9:19 AM	**Batch State**	Processed

Analysis Info
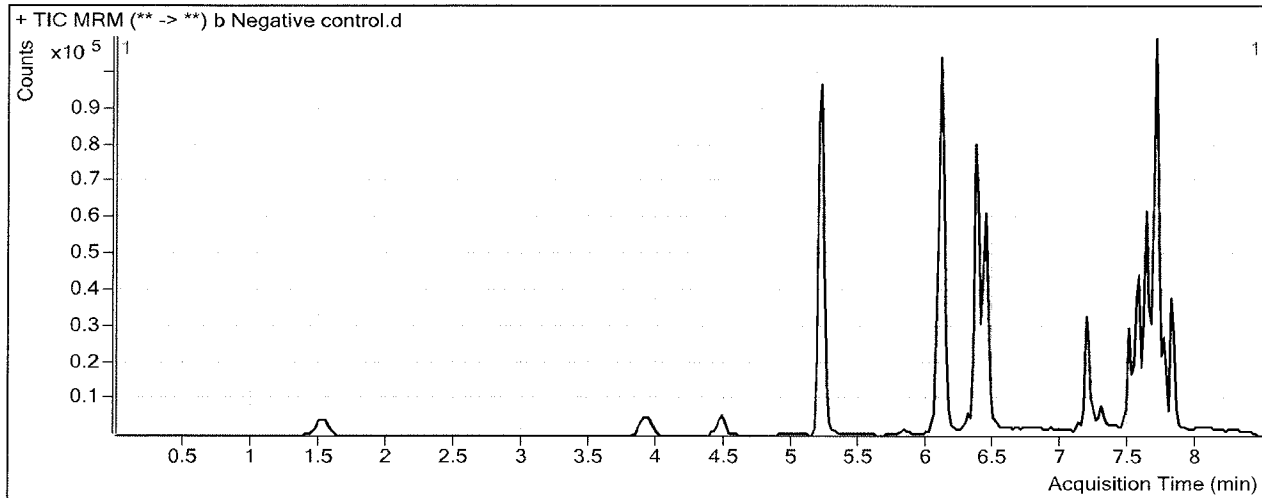
Acq Time	2018-10-31 19:23	**Data File**	b external control.d
Sample Type	Sample	**Sample Name**	b external control
Dilution	1	**Acq Method**	b1 mdq 618.m
Position	P2-F2	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28: external control p1

Sample Chromatogram
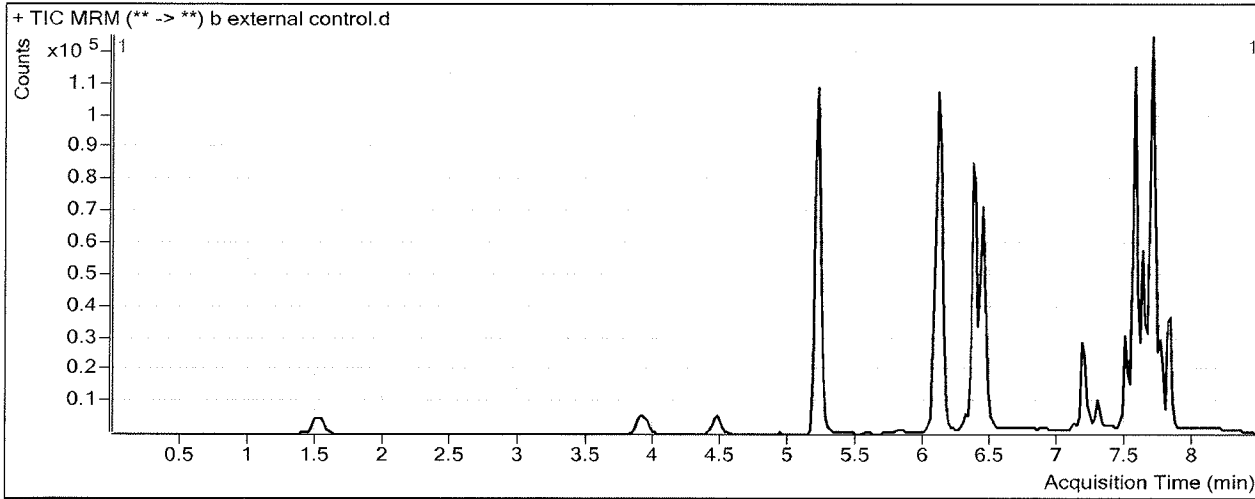
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Methadone	Methadone-D9	7.560	73702	85806	0.8589	48.1443
Sertraline	Sertraline-D3	7.663	8783	8410	1.0444	41.2344

ISP FORENSICS - Cd'A Instrument # 62340
Multi-Drug Confirmatory Analysis Report

Batch Data Path	D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1b-r.batch.bin		
Analysis Time	11/5/2018 9:19 AM	**Analyst Name**	ISP Tox
Report Time	11/5/2018 9:23 AM	**Reporter Name**	ISP Tox
Last Calib Update	11/5/2018 9:19 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-10-31 19:49	**Data File**	b QC 10.d
Sample Type	QC	**Sample Name**	b QC 10
Dilution	1	**Acq Method**	b1 mdq 618.m
Position	P2-A2	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28 Panel 1

Sample Chromatogram

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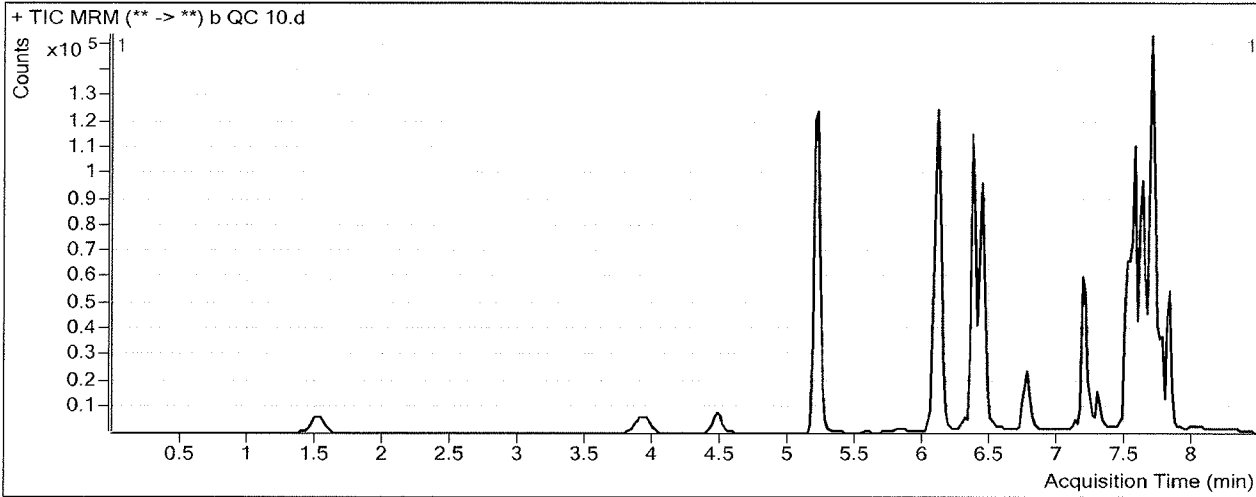
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc	
Oxymorphone	Oxymorphone-D3	1.528	7835	35343	0.2217	9.7745	
Dihydrocodeine	Dihydrocodeine-D6	3.970	8402	38281	0.2195	10.5822	
Noroxycodone	Noroxycodone-D3	4.498	7035	27246	0.2582	10.4280	
O-desmethyl-tramadol	O-desmethyl-tramadol-D6	5.219	80792	357223	0.2262	10.4582	
~~Benzoylecgonine~~	Benzoylecgonine-d8	5.848	821	3190	0.2573	14.0030	
Ketamine	Ketamine-D4	6.081	34718	131828	0.2634	10.1717	
~~Norfentanyl~~	~~Norfentanyl-D5~~	6.124	6042	279814	0.0216	1.2280	*outside range*
Cocaine	Cocaine-d3	6.349	54211	268596	0.2018	9.6641	
alpha-PVP	alpha-PVP-d8	6.445	51249	202007	0.2537	10.0974	
Mirtazapine	alpha-PVP-d8	6.760	36876	202007	0.1825	9.1497	
~~Norbuprenorphine~~	~~Norbuprenorphine-D3~~	7.113	200	7944	0.0251	0.7716	*outside range*
Fentanyl	Fentanyl-D5	7.196	3494	160447	0.0218	1.0912	
~~Mitragynine~~	EDDP-D3	7.274	7922	15146	0.5230	8.8744	
EDDP	EDDP-D3	7.287	3475	15146	0.2295	11.7314	
Cyclobenzaprine	Cyclobenzaprine-D3	7.529	14101	61043	0.2310	10.4113	
Quetiapine	Quetiapine-D8	7.497	60377	79283	0.7615	10.4350	
Methadone	Methadone-D9	7.560	31309	162406	0.1928	10.9661	
Fluoxetine	Fluoxetine-D6	7.602	28613	127571	0.2243	10.7987	
Sertraline	Sertraline-D3	7.663	7732	30790	0.2511	10.3873	
Oxazepam	Oxazepam-D5	7.646	23002	106992	0.2150	10.0481	
Temazepam	Temazepam-D5	7.685	51839	229376	0.2260	9.5818	
~~Buprenorphine~~	~~Buprenorphine-D4~~	7.775	1055	46008	0.0229	0.6004	*outside range*
Nordiazepam	Nordiazepam-D5	7.773	16325	48287	0.3381	8.8582	

* Not evaluated

b qc 10

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Diazepam	Diazepam-D5	7.829	20332	89532	0.2271	8.4852

ISP FORENSICS - Cd'A Instrument # 62340
Multi-Drug Confirmatory Analysis Report

Batch Data Path	D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1b-r.batch.bin
Analysis Time	11/5/2018 9:19 AM **Analyst Name** ISP Tox
Report Time	11/5/2018 9:23 AM **Reporter Name** ISP Tox
Last Calib Update	11/5/2018 9:19 AM **Batch State** Processed

Analysis Info

Acq Time	2018-11-01 14:30	**Data File**	b qc 100r.d
Sample Type	QC	**Sample Name**	b qc 100
Dilution	1	**Acq Method**	b1 mdq 618.m
Position	P2-B2	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28 Panel 1

Sample Chromatogram
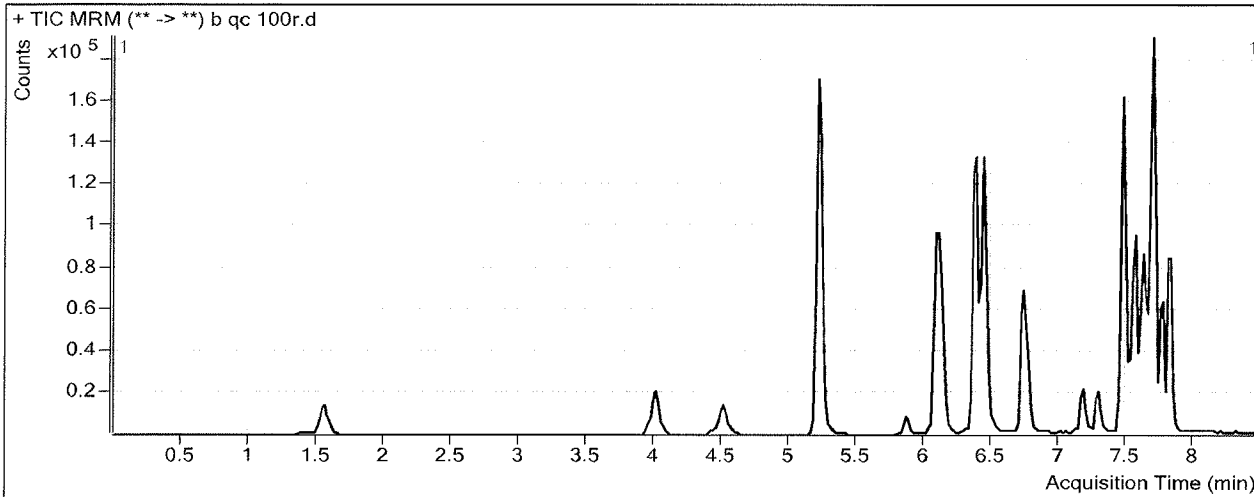
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Oxymorphone	Oxymorphone-D3	1.568	32577	14929	2.1822	90.1560
Dihydrocodeine	Dihydrocodeine-D6	4.010	42703	18015	2.3704	118.3756
Noroxycodone	Noroxycodone-D3	4.518	33681	12198	2.7611	101.1461
O-desmethyl-tramadol	O-desmethyl-tramadol-D6	5.219	385502	161461	2.3876	112.5564
~~Benzoylecgonine~~	Benzoylecgonine-d8	5.848	9619	1501	6.4097	347.9672
Ketamine	Ketamine-D4	6.081	163438	57601	2.8374	108.0973
Norfentanyl	Norfentanyl-D5	6.144	30866	129318	0.2387	10.0765
Cocaine	Cocaine-d3	6.369	232074	107997	2.1489	101.2466
alpha-PVP	alpha-PVP-d8	6.445	211989	79173	2.6775	103.7892
Mirtazapine	alpha-PVP-d8	6.740	129315	79173	1.6333	80.8207
Norbuprenorphine	Norbuprenorphine-D3	7.113	489	2125	0.2303	10.2485
Fentanyl	Fentanyl-D5	7.176	8924	42334	0.2108	9.4944
~~Mitragynine~~	EDDP-D3	7.254	22731	5493	4.1382	70.4746
EDDP	EDDP-D3	7.287	14374	5493	2.6168	109.8404
Cyclobenzaprine	Cyclobenzaprine-D3	7.529	35144	13094	2.6840	116.0024
Quetiapine	Quetiapine-D8	7.456	220993	27380	8.0714	113.1793
Methadone	Methadone-D9	7.560	87690	44297	1.9796	110.6873
Fluoxetine	Fluoxetine-D6	7.602	71179	30605	2.3257	109.0197
Sertraline	Sertraline-D3	7.663	17900	7582	2.3608	92.4245
Oxazepam	Oxazepam-D5	7.646	92804	35330	2.6268	115.7836
Temazepam	Temazepam-D5	7.685	232355	89135	2.6068	110.1338
Buprenorphine	Buprenorphine-D4	7.594	3254	10592	0.3072	11.9488
Nordiazepam	Nordiazepam-D5	7.773	87274	19921	4.3810	111.9620

❌ Not evaluated

b qc 100

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Diazepam	Diazepam-D5	7.829	112552	37910	2.9689	108.9826

ISP FORENSICS - Cd'A Instrument # 62340
Multi-Drug Confirmatory Analysis Report

Batch Data Path	D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1b-r.batch.bin		
Analysis Time	11/5/2018 9:19 AM	**Analyst Name**	ISP Tox
Report Time	11/5/2018 9:23 AM	**Reporter Name**	ISP Tox
Last Calib Update	11/5/2018 9:19 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-11-01 18:43	**Data File**	b QC 250r.d
Sample Type	QC	**Sample Name**	b QC 250
Dilution	1	**Acq Method**	b1 mdq 618.m
Position	P2-C2	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28 Panel 1

Sample Chromatogram

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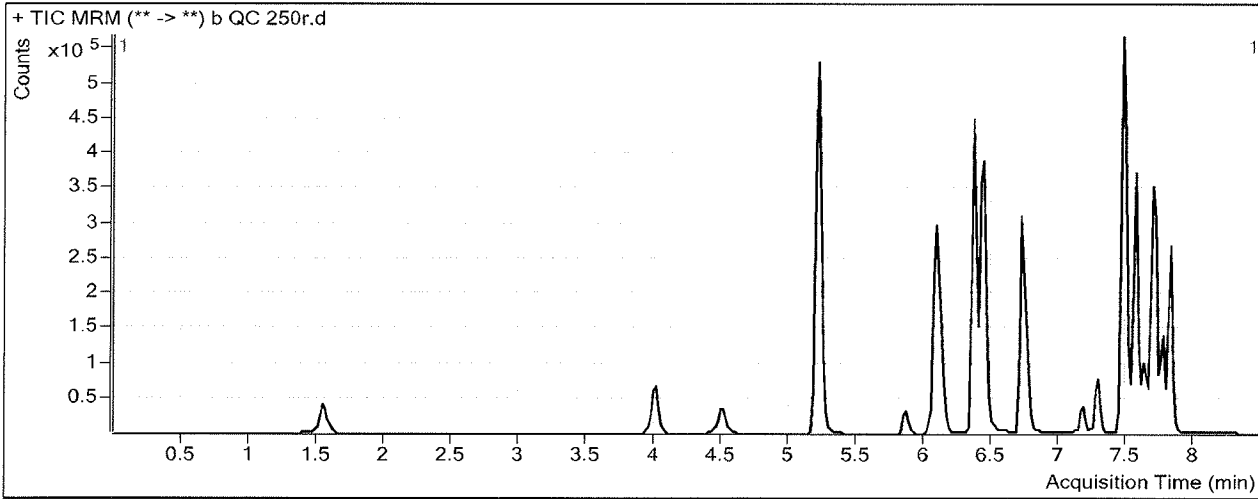
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Oxymorphone	Oxymorphone-D3	1.548	101999	17088	5.9691	245.4250
Dihydrocodeine	Dihydrocodeine-D6	4.010	149289	25014	5.9681	298.6822
Noroxycodone	Noroxycodone-D3	4.518	107016	14911	7.1772	261.2048
O-desmethyl-tramadol	O-desmethyl-tramadol-D6	5.219	1410036	235004	6.0001	283.1980
Benzoylecgonine	Benzoylecgonine-d8	5.848	40380	1724	23.4208	1271.3555
Ketamine	Ketamine-D4	6.081	589329	81754	7.2086	274.3895
Norfentanyl	Norfentanyl-D5	6.124	124763	191377	0.6519	26.9196
Cocaine	Cocaine-d3	6.349	830785	154056	5.3928	253.8252
alpha-PVP	alpha-PVP-d8	6.445	785426	122161	6.4294	248.8147
Mirtazapine	alpha-PVP-d8	6.720	539634	122161	4.4174	218.3587
Norbuprenorphine	Norbuprenorphine-D3	7.113	2215	4263	0.5195	23.6063
Fentanyl	Fentanyl-D5	7.176	31220	55925	0.5583	24.9399
Mitragynine	EDDP-D3	7.254	78571	10735	7.3188	124.6706
EDDP	EDDP-D3	7.287	74066	10735	6.8992	285.8255
Cyclobenzaprine	Cyclobenzaprine-D3	7.530	63836	9930	6.4283	277.1793
Quetiapine	Quetiapine-D8	7.457	871040	45982	18.9432	265.9896
Methadone	Methadone-D9	7.560	326854	72663	4.4982	251.2499
Fluoxetine	Fluoxetine-D6	7.602	65113	12767	5.1001	238.6936
Sertraline	Sertraline-D3	7.663	11074	2157	5.1332	200.2293
Oxazepam	Oxazepam-D5	7.646	146500	23674	6.1881	271.9130
Temazepam	Temazepam-D5	7.685	618727	93965	6.5846	278.1401
Buprenorphine	Buprenorphine-D4	7.594	11250	18395	0.6116	24.0986
Nordiazepam	Nordiazepam-D5	7.773	208550	20516	10.1655	259.4791

Handwritten annotations: "No" and "outside range" next to Benzoylecgonine; "outside range" and "Norfentanyl" crossed out; "outside range" next to Norbuprenorphine; "Mitragynine" crossed out; "EDDP" with checkmark

Handwritten: ✻ not evaluated

b qc 250

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Diazepam	Diazepam-D5	7.829	344444	47501	7.2513	265.9476

ISP FORENSICS - Cd'A Instrument # 62340
Multi-Drug Confirmatory Analysis Report

Batch Data Path	D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1b-r.batch.bin
Analysis Time	11/5/2018 9:19 AM
Report Time	11/5/2018 9:23 AM
Last Calib Update	11/5/2018 9:19 AM

Analysis Time	11/5/2018 9:19 AM	**Analyst Name**	ISP Tox
Report Time	11/5/2018 9:23 AM	**Reporter Name**	ISP Tox
Last Calib Update	11/5/2018 9:19 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-11-01 19:09	**Data File**	b qc 1000r.d
Sample Type	QC	**Sample Name**	b qc 1000
Dilution	1	**Acq Method**	b1 mdq 618.m
Position	P2-D2	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28 Panel 1

Sample Chromatogram

+ TIC MRM (** -> **) b qc 1000r.d
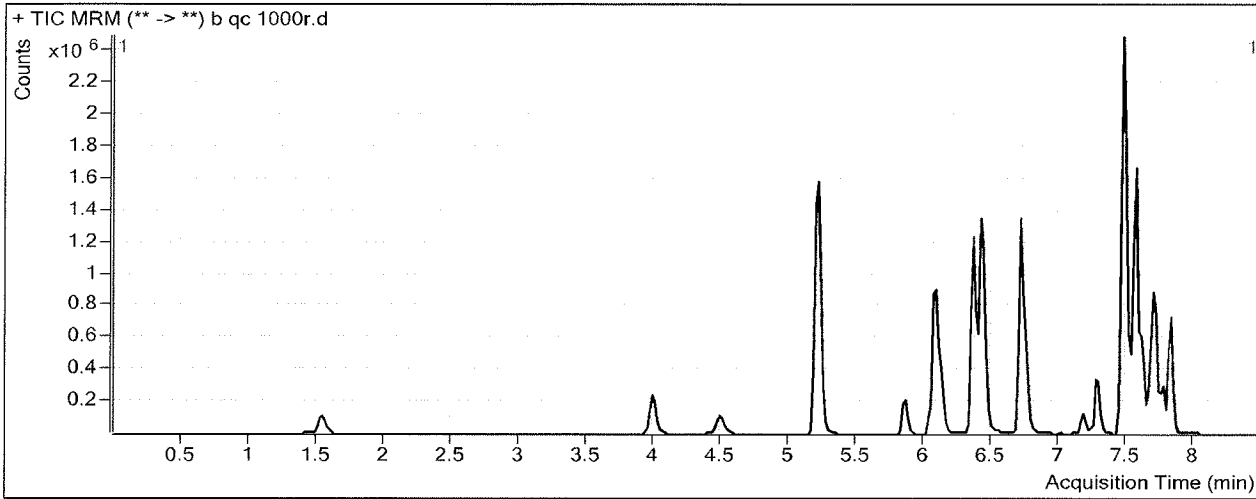
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc	
Oxymorphone	Oxymorphone-D3	1.548	375430	14840	25.2977	1037.9161	
Dihydrocodeine	Dihydrocodeine-D6	3.990	510596	27163	18.7972	941.6297	OR
Noroxycodone	Noroxycodone-D3	4.498	336930	12639	26.6582	967.2934	
O-desmethyl-tramadol	O-desmethyl-tramadol-D6	5.219	5151399	239398	21.5181	1016.2207	
Benzoylecgonine	Benzoylecgonine-d8	5.848	269003	1992	135.0575	7331.1758	#
Ketamine	Ketamine-D4	6.081	2170578	85760	25.3100	963.0236	
Norfentanyl	Norfentanyl-D5	6.124	491137	192384	2.5529	104.4014	OR
Cocaine	Cocaine-d3	6.349	2659136	135223	19.6648	925.1241	
alpha-PVP	alpha-PVP-d8	6.425	2990922	127799	23.4033	904.9254	
Mirtazapine	alpha-PVP-d8	6.720	2374768	127799	18.5820	918.1165	
Norbuprenorphine	Norbuprenorphine-D3	7.113	8832	4530	1.9497	89.6579	OR
Fentanyl	Fentanyl-D5	7.176	168060	76177	2.2062	98.1972	
Mitragynine	EDDP-D3	7.254	375602	15067	24.9294	424.7442	#
EDDP	EDDP-D3	7.287	383495	15067	25.4532	1048.3015	
Cyclobenzaprine	Cyclobenzaprine-D3	7.529	564090	25094	22.4793	968.1090	
Quetiapine	Quetiapine-D8	7.456	3915351	56396	69.4254	975.5510	
Methadone	Methadone-D9	7.560	1634837	104674	15.6183	871.8634	
Fluoxetine	Fluoxetine-D6	7.602	897216	42097	21.3128	996.4841	
Sertraline	Sertraline-D3	7.663	190349	8521	22.3397	869.3040	OR
Oxazepam	Oxazepam-D5	7.626	233676	10633	21.9770	964.1042	
Temazepam	Temazepam-D5	7.685	1624735	64655	25.1293	1061.3767	
Buprenorphine	Buprenorphine-D4	7.594	43820	20996	2.0870	82.9969	OR
Nordiazepam	Nordiazepam-D5	7.773	490619	12942	37.9098	967.0214	

OR = outside range

= not evaluated

b qc 1000

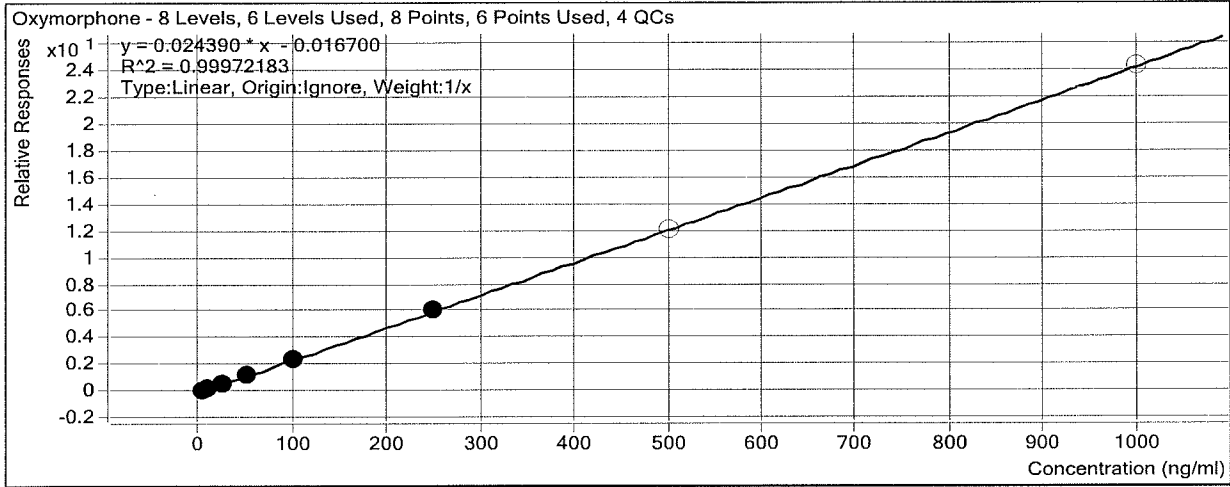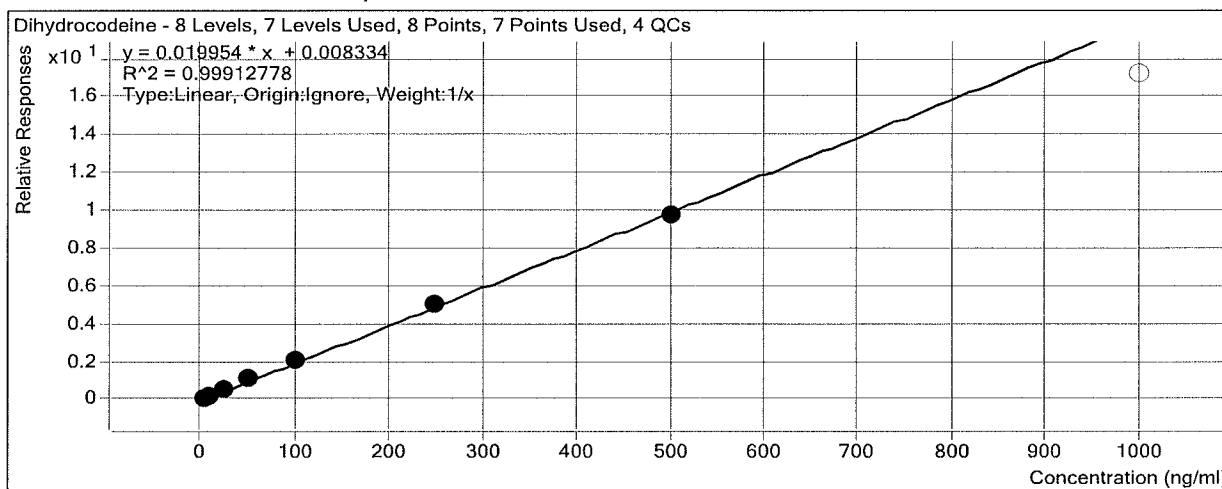| Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Diazepam	Diazepam-D5	7.829	1093224	39736	27.5123	1008.5859

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1b-r.batch.bin

Last Calib Update   11/5/2018 9:19 AM   **Analyst Name**   ISP TOX

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

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

$y = 0.024390 * x - 0.016700$
$R^2 = 0.99972183$
Type:Linear, Origin:Ignore, Weight:1/x

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng	1	☑	5	5.2	103.4
b cal 2-10ng	2	☑	10	10.0	99.9
b QC 10	2	☑	10	9.8	97.7
b cal 3-25ng	3	☑	25	24.5	98.1
b cal 4-50ng	4	☑	50	49.9	99.8
b cal 5-100ng	5	☑	100	97.7	97.7
b qc 100	5	☑	100	90.2	90.2
b cal 6-250ng	6	☑	250	252.7	101.1
b QC 250	6	☑	250	245.4	98.2
b cal 7-500ng	7	☐	500	494.7	98.9
b cal 8-1000ng	8	☐	1000	996.2	99.6
b qc 1000	8	☑	1000	1037.9	103.8

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1b-r.batch.bin

Last Calib Update   11/5/2018 9:19 AM   **Analyst Name**   ISP TOX

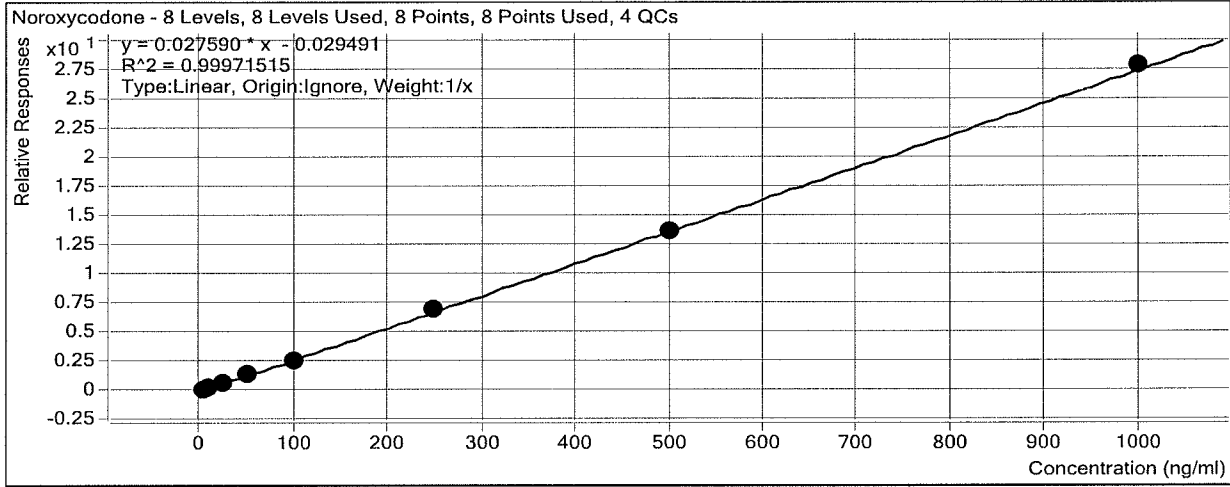***Target Compound***   *Dihydrocodeine*
Internal Standard   *Dihydrocodeine-D6*

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

$y = 0.019954 * x + 0.008334$
$R^2 = 0.99912778$
Type:Linear, Origin:Ignore, Weight:1/x

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng	1	☑	5	4.6	92.6
b cal 2-10ng	2	☑	10	9.4	94.5
b QC 10	2	☑	10	10.6	105.8
b cal 3-25ng	3	☑	25	25.9	103.4
b cal 4-50ng	4	☑	50	53.0	105.9
b cal 5-100ng	5	☑	100	104.4	104.4
b qc 100	5	☑	100	118.4	118.4
b cal 6-250ng	6	☑	250	253.0	101.2
b QC 250	6	☑	250	298.7	119.5
b cal 7-500ng	7	☑	500	489.7	97.9
b cal 8-1000ng	8	☐	1000	861.2	86.1
b qc 1000	8	☑	1000	941.6	94.2

ISP Forensics
Calibration Curve Report

Batch Data Path D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1b-r.batch.bin

Last Calib Update 11/5/2018 9:19 AM **Analyst Name** ISP TOX

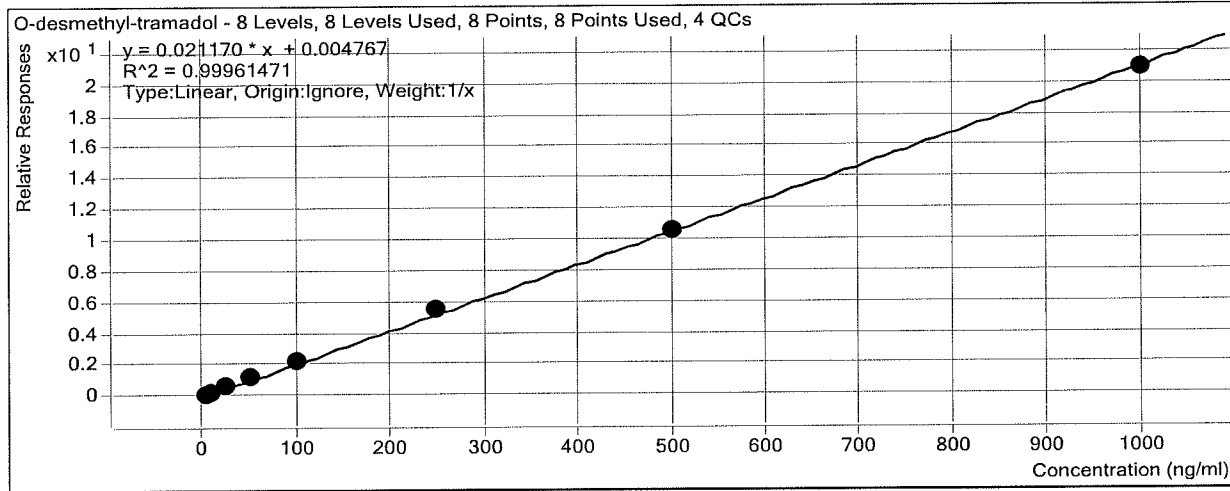**Target Compound** *Noroxycodone*
Internal Standard *Noroxycodone-D3*

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

$y = 0.027590 * x - 0.029491$
$R^2 = 0.99971515$
Type:Linear, Origin:Ignore, Weight:1/x

Relative Responses vs Concentration (ng/ml)

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng	1	☑	5	5.4	107.8
b cal 2-10ng	2	☑	10	10.1	100.8
b QC 10	2	☑	10	10.4	104.3
b cal 3-25ng	3	☑	25	24.4	97.5
b cal 4-50ng	4	☑	50	49.3	98.7
b cal 5-100ng	5	☑	100	94.6	94.6
b qc 100	5	☑	100	101.1	101.1
b cal 6-250ng	6	☑	250	251.9	100.7
b QC 250	6	☑	250	261.2	104.5
b cal 7-500ng	7	☑	500	494.8	99.0
b cal 8-1000ng	8	☑	1000	1009.5	101.0
b qc 1000	8	☑	1000	967.3	96.7

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1b-r.batch.bin

Last Calib Update   11/5/2018 9:19 AM   **Analyst Name**   ISP TOX

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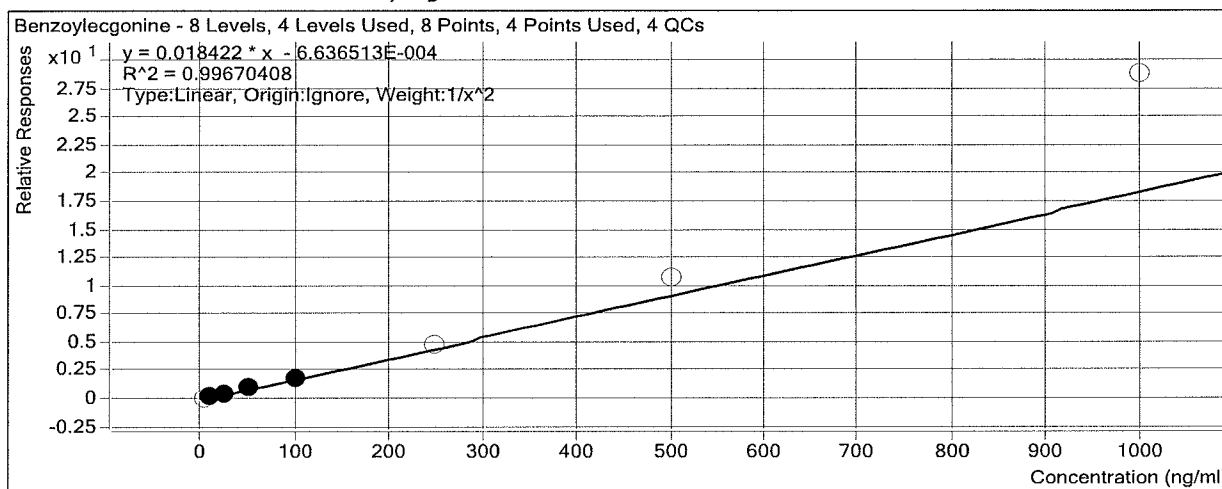*Internal Standard*   *O-desmethyl-tramadol-D6*

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

$y = 0.021170 * x + 0.004767$
$R^2 = 0.99961471$
Type:Linear, Origin:Ignore, Weight:1/x

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng	1	☑	5	4.5	90.9
b cal 2-10ng	2	☑	10	9.7	96.6
b QC 10	2	☑	10	10.5	104.6
b cal 3-25ng	3	☑	25	25.7	102.7
b cal 4-50ng	4	☑	50	53.1	106.3
b cal 5-100ng	5	☑	100	101.7	101.7
b qc 100	5	☑	100	112.6	112.6
b cal 6-250ng	6	☑	250	257.7	103.1
b QC 250	6	☑	250	283.2	113.3
b cal 7-500ng	7	☑	500	499.7	99.9
b cal 8-1000ng	8	☑	1000	987.9	98.8
b qc 1000	8	☑	1000	1016.2	101.6

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1b-r.batch.bin

Last Calib Update   11/5/2018 9:19 AM   **Analyst Name**   ISP TOX

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

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

$y = 0.018422 * x - 6.636513E{-}004$
$R^2 = 0.99670408$
Type:Linear, Origin:Ignore, Weight:1/x^2

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng	1	☐	5	4.1	82.5
b cal 2-10ng	2	☑	10	10.2	101.5
b QC 10	2	☑	10	14.0	140.0
b cal 3-25ng	3	☑	25	23.5	94.1
b cal 4-50ng	4	☑	50	52.0	103.9
b cal 5-100ng	5	☑	100	100.5	100.5
b qc 100	5	☑	100	348.0	348.0
b cal 6-250ng	6	☐	250	257.6	103.0
b QC 250	6	☑	250	1271.4	508.5
b cal 7-500ng	7	☐	500	583.3	116.7
b cal 8-1000ng	8	☐	1000	1561.6	156.2
b qc 1000	8	☐	1000	7331.2	733.1

 # not evaluated

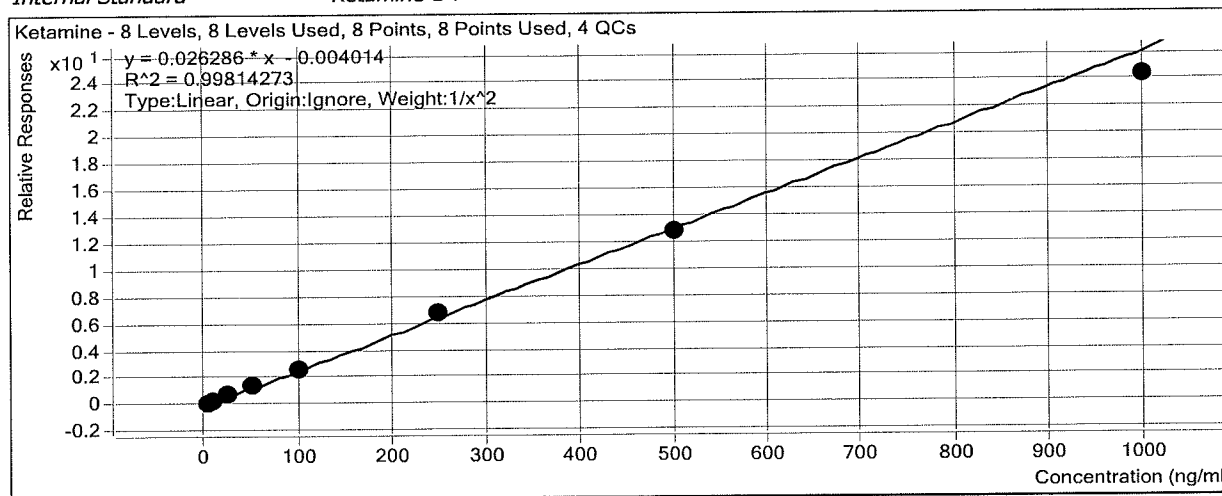# ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1b-r.batch.bin

Last Calib Update   11/5/2018 9:19 AM   **Analyst Name**   ISP TOX

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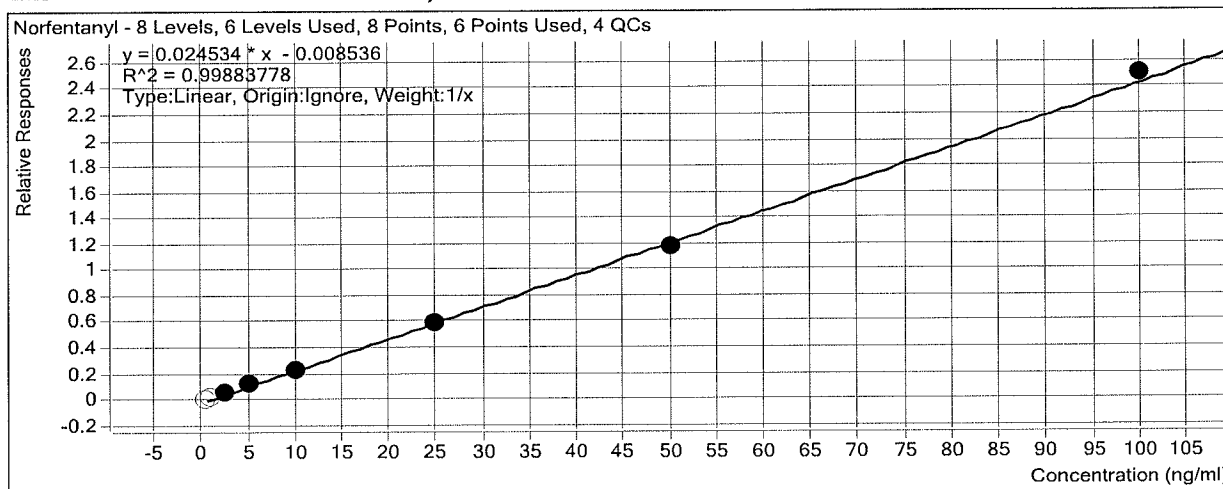*Internal Standard*   *Ketamine-D4*

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

$y = 0.026286 * x - 0.004014$
$R^2 = 0.99814273$
Type:Linear, Origin:Ignore, Weight:$1/x^2$

Relative Responses

Concentration (ng/ml)

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng	1	☑	5	5.0	99.3
b cal 2-10ng	2	☑	10	9.9	99.2
b QC 10	2	☑	10	10.2	101.7
b cal 3-25ng	3	☑	25	25.7	102.9
b cal 4-50ng	4	☑	50	52.4	104.8
b cal 5-100ng	5	☑	100	100.6	100.6
b qc 100	5	☑	100	108.1	108.1
b cal 6-250ng	6	☑	250	256.5	102.6
b QC 250	6	☑	250	274.4	109.8
b cal 7-500ng	7	☑	500	489.5	97.9
b cal 8-1000ng	8	☑	1000	926.5	92.6
b qc 1000	8	☑	1000	963.0	96.3

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1b-r.batch.bin

Last Calib Update   11/5/2018 9:19 AM   **Analyst Name**   ISP TOX

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

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

y = 0.024534 * x - 0.008536
R^2 = 0.99883778
Type:Linear, Origin:Ignore, Weight:1/x

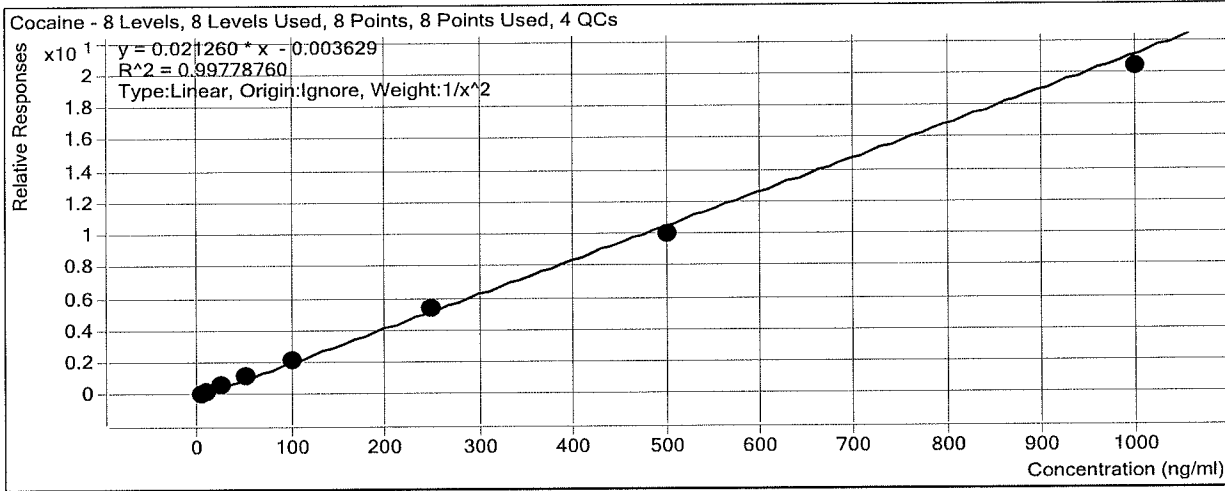| Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng	1	☐	0.5	0.8	153.3
b cal 2-10ng	2	☐	1	1.2	115.9
b QC 10	2	☐	1	1.2	122.8
b cal 3-25ng	3	☑	2.5	2.7	107.1
b cal 4-50ng	4	☑	5	5.1	102.3
b cal 5-100ng	5	☑	10	9.4	93.6
b qc 100	5	☑	10	10.1	100.8
b cal 6-250ng	6	☑	25	24.3	97.3
b QC 250	6	☑	25	26.9	107.7
b cal 7-500ng	7	☑	50	48.6	97.2
b cal 8-1000ng	8	☑	100	102.4	102.4
b qc 1000	8	☑	100	104.4	104.4

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1b-r.batch.bin

Last Calib Update   11/5/2018 9:19 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 = 0.021260 * x - 0.003629
R^2 = 0.99778760
Type:Linear, Origin:Ignore, Weight:1/x^2

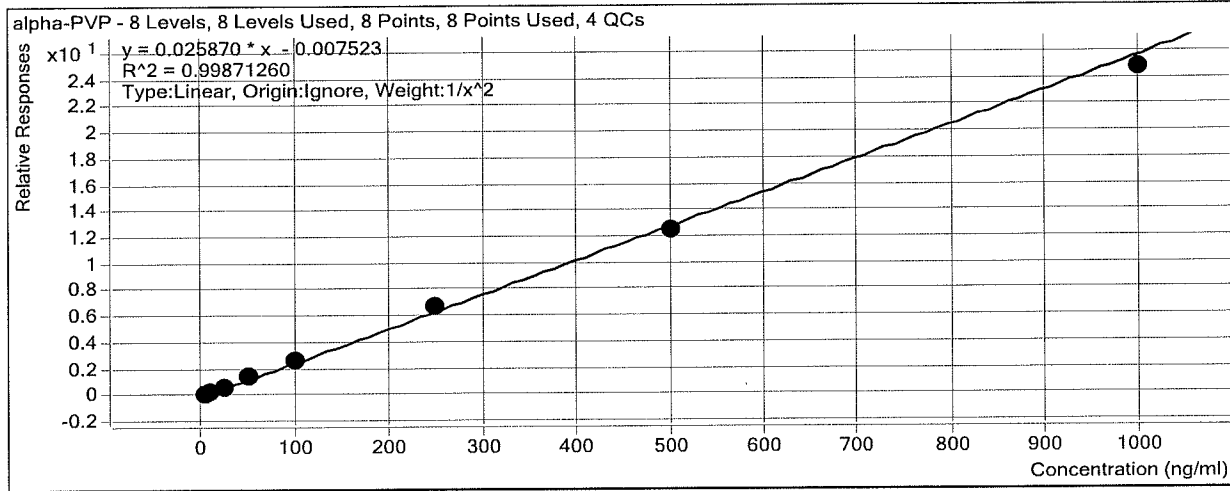| Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng	1	☑	5	5.0	100.6
b cal 2-10ng	2	☑	10	9.6	95.9
b QC 10	2	☑	10	9.7	96.6
b cal 3-25ng	3	☑	25	26.1	104.4
b cal 4-50ng	4	☑	50	52.6	105.3
b cal 5-100ng	5	☑	100	102.4	102.4
b qc 100	5	☑	100	101.2	101.2
b cal 6-250ng	6	☑	250	252.6	101.0
b QC 250	6	☑	250	253.8	101.5
b cal 7-500ng	7	☑	500	473.9	94.8
b cal 8-1000ng	8	☑	1000	956.7	95.7
b qc 1000	8	☑	1000	925.1	92.5

ISP Forensics
Calibration Curve Report

Batch Data Path D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1b-r.batch.bin

Last Calib Update 11/5/2018 9:19 AM **Analyst Name** ISP TOX

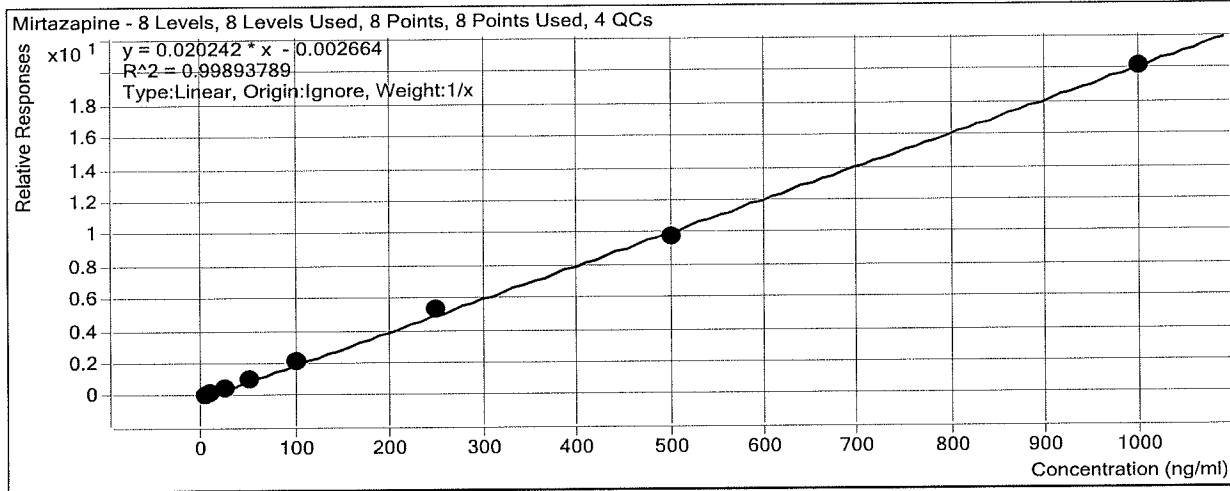## Target Compound *alpha-PVP*
Internal Standard *alpha-PVP-d8*

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

$y = 0.025870 * x - 0.007523$
$R^2 = 0.99871260$
Type:Linear, Origin:Ignore, Weight:1/x^2

Concentration (ng/ml)

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng	1	☑	5	5.0	100.8
b cal 2-10ng	2	☑	10	9.7	97.4
b QC 10	2	☑	10	10.1	101.0
b cal 3-25ng	3	☑	25	24.9	99.6
b cal 4-50ng	4	☑	50	52.3	104.6
b cal 5-100ng	5	☑	100	101.8	101.8
b qc 100	5	☑	100	103.8	103.8
b cal 6-250ng	6	☑	250	257.4	103.0
b QC 250	6	☑	250	248.8	99.5
b cal 7-500ng	7	☑	500	485.7	97.1
b cal 8-1000ng	8	☑	1000	956.4	95.6
b qc 1000	8	☑	1000	904.9	90.5

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1b-r.batch.bin

Last Calib Update   11/5/2018 9:19 AM   **Analyst Name**   ISP TOX

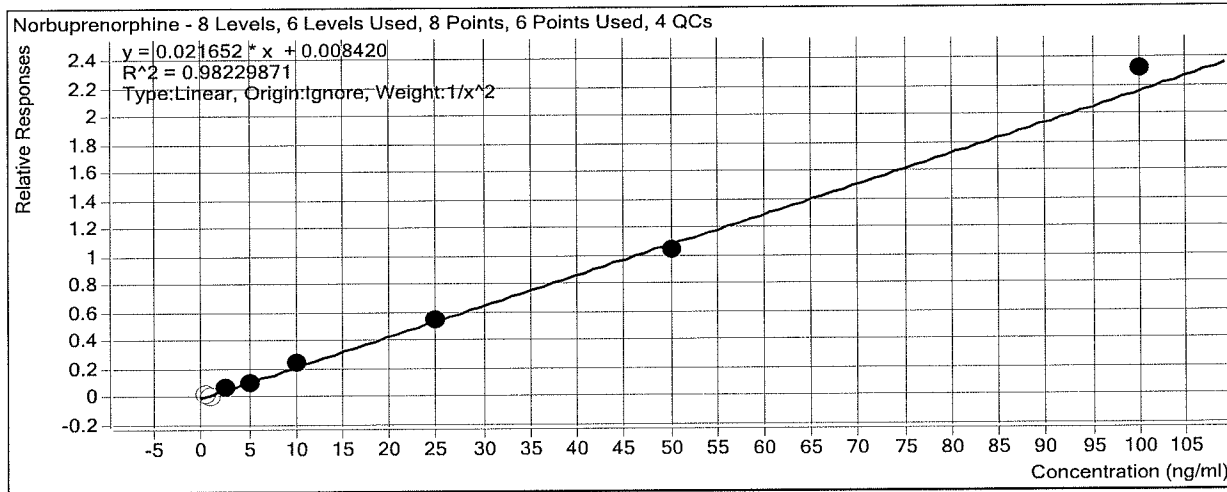### Target Compound   *Mirtazapine*
Internal Standard   *alpha-PVP-d8*

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

y = 0.020242 * x - 0.002664
R^2 = 0.99893789
Type:Linear, Origin:Ignore, Weight:1/x

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng	1	☑	5	5.3	105.1
b cal 2-10ng	2	☑	10	8.4	83.9
b QC 10	2	☑	10	9.1	91.5
b cal 3-25ng	3	☑	25	25.8	103.3
b cal 4-50ng	4	☑	50	50.2	100.5
b cal 5-100ng	5	☑	100	104.7	104.7
b qc 100	5	☑	100	80.8	80.8
b cal 6-250ng	6	☑	250	265.1	106.0
b QC 250	6	☑	250	218.4	87.3
b cal 7-500ng	7	☑	500	485.2	97.0
b cal 8-1000ng	8	☑	1000	995.4	99.5
b qc 1000	8	☑	1000	918.1	91.8

ISP Forensics
Calibration Curve Report

Batch Data Path D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1b-r.batch.bin

Last Calib Update 11/5/2018 9:19 AM **Analyst Name** ISP TOX

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

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

y = 0.021652 * x + 0.008420
R^2 = 0.98229871
Type:Linear, Origin:Ignore, Weight:1/x^2

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng	1	☐	0.5	0.3	62.0
b cal 2-10ng	2	☐	1	0.2	17.7
b QC 10	2	☐	1	0.8	77.2
b cal 3-25ng	3	☑	2.5	2.7	107.5
b cal 4-50ng	4	☑	5	4.0	80.5
b cal 5-100ng	5	☑	10	10.9	109.1
b qc 100	5	☑	10	10.2	102.5
b cal 6-250ng	6	☑	25	25.2	100.7
b QC 250	6	☑	25	23.6	94.4
b cal 7-500ng	7	☑	50	47.9	95.9
b cal 8-1000ng	8	☑	100	106.4	106.4
b qc 1000	8	☑	100	89.7	89.7

ISP Forensics
Calibration Curve Report

Batch Data Path D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1b-r.batch.bin

Last Calib Update 11/5/2018 9:19 AM **Analyst Name** ISP TOX

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

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

y = 0.022495 * x - 0.002768
R^2 = 0.99907860
Type:Linear, Origin:Ignore, Weight:1/x
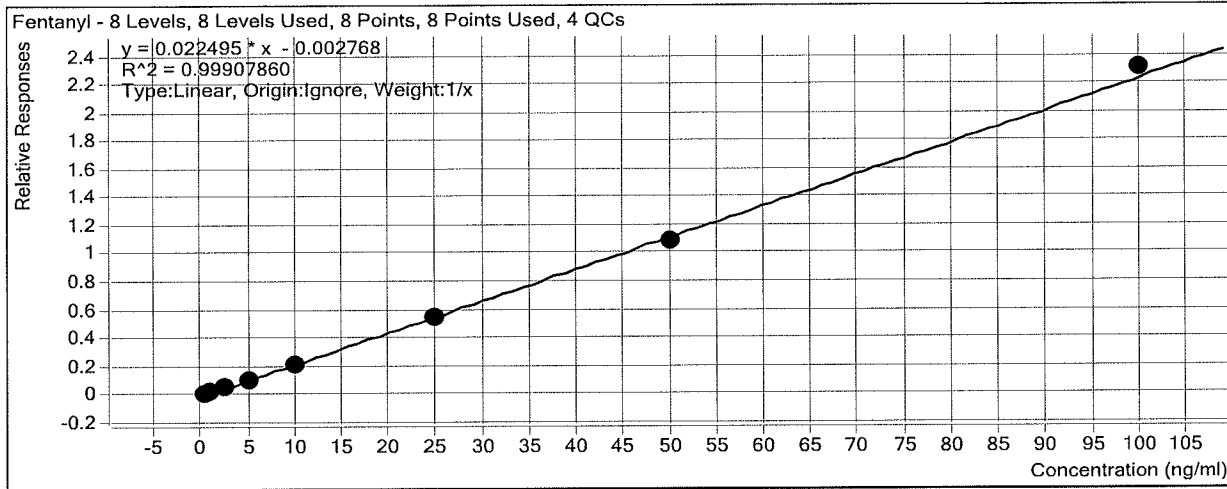
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng	1	☑	0.5	0.5	108.9
b cal 2-10ng	2	☑	1	1.0	99.6
b QC 10	2	☑	1	1.1	109.1
b cal 3-25ng	3	☑	2.5	2.6	103.0
b cal 4-50ng	4	☑	5	4.7	94.5
b cal 5-100ng	5	☑	10	9.7	97.0
b qc 100	5	☑	10	9.5	94.9
b cal 6-250ng	6	☑	25	24.4	97.5
b QC 250	6	☑	25	24.9	99.8
b cal 7-500ng	7	☑	50	48.5	96.9
b cal 8-1000ng	8	☑	100	102.6	102.6
b qc 1000	8	☑	100	98.2	98.2

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1b-r.batch.bin

Last Calib Update   11/5/2018 9:19 AM   **Analyst Name**   ISP TOX

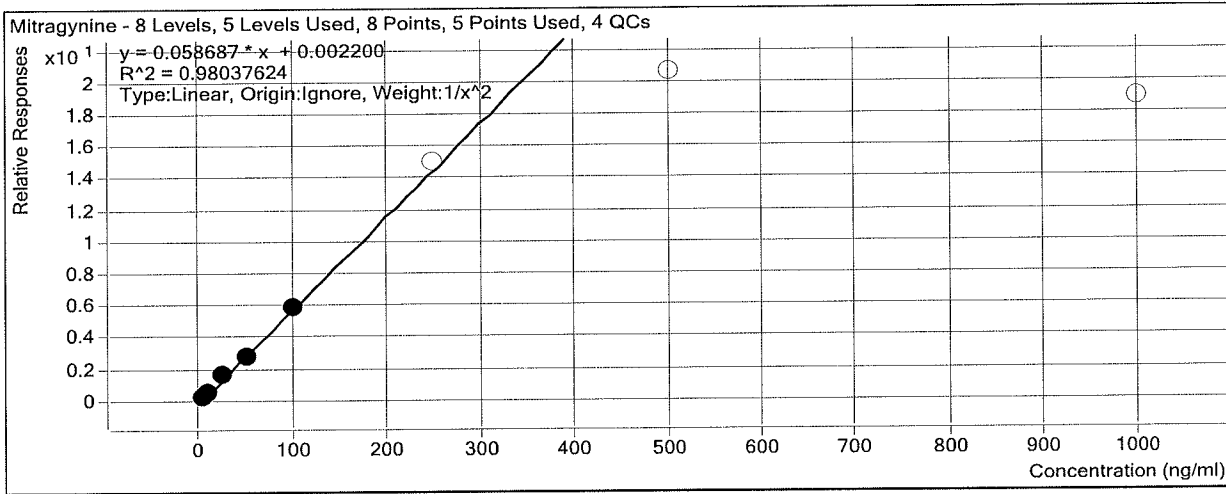*Target Compound*   *Mitragynine*
Internal Standard   *EDDP-D3*

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

y = 0.058687 * x + 0.002200
R^2 = 0.98037624
Type:Linear, Origin:Ignore, Weight:1/x^2

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng	1	☑	5	5.3	105.8
b cal 2-10ng	2	☑	10	8.4	83.8
b QC 10	2	☑	10	8.9	88.7
b cal 3-25ng	3	☑	25	28.2	112.9
b cal 4-50ng	4	☑	50	48.2	96.4
b cal 5-100ng	5	☑	100	101.0	101.0
b qc 100	5	☑	100	70.5	70.5
b cal 6-250ng	6	☐	250	257.2	102.9
b QC 250	6	☑	250	124.7	49.9
b cal 7-500ng	7	☐	500	351.6	70.3
b cal 8-1000ng	8	☐	1000	324.6	32.5
b qc 1000	8	☐	1000	424.7	42.5

⚡ not evaluated

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1b-r.batch.bin

Last Calib Update   11/5/2018 9:19 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

$y = 0.024334 * x - 0.056010$
$R^2 = 0.99877090$
Type:Linear, Origin:Ignore, Weight:1/x

Relative Responses (×10^1) vs Concentration (ng/ml)

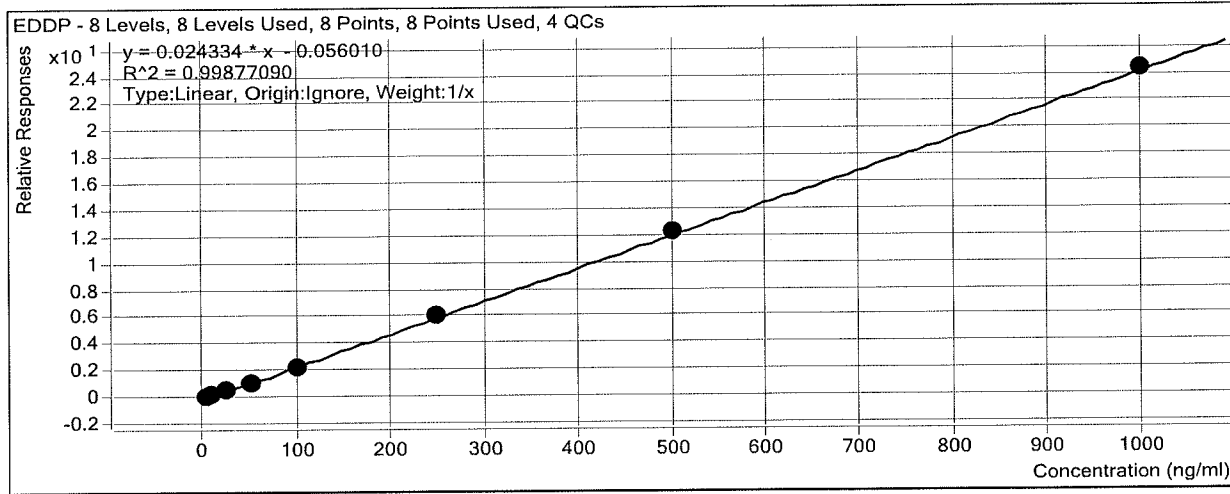| Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng	1	☑	5	5.6	111.2
b cal 2-10ng	2	☑	10	11.8	117.6
b QC 10	2	☑	10	11.7	117.3
b cal 3-25ng	3	☑	25	21.3	85.1
b cal 4-50ng	4	☑	50	45.6	91.2
b cal 5-100ng	5	☑	100	91.7	91.7
b qc 100	5	☑	100	109.8	109.8
b cal 6-250ng	6	☑	250	254.1	101.6
b QC 250	6	☑	250	285.8	114.3
b cal 7-500ng	7	☑	500	506.7	101.3
b cal 8-1000ng	8	☑	1000	1003.4	100.3
b qc 1000	8	☑	1000	1048.3	104.8

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1b-r.batch.bin

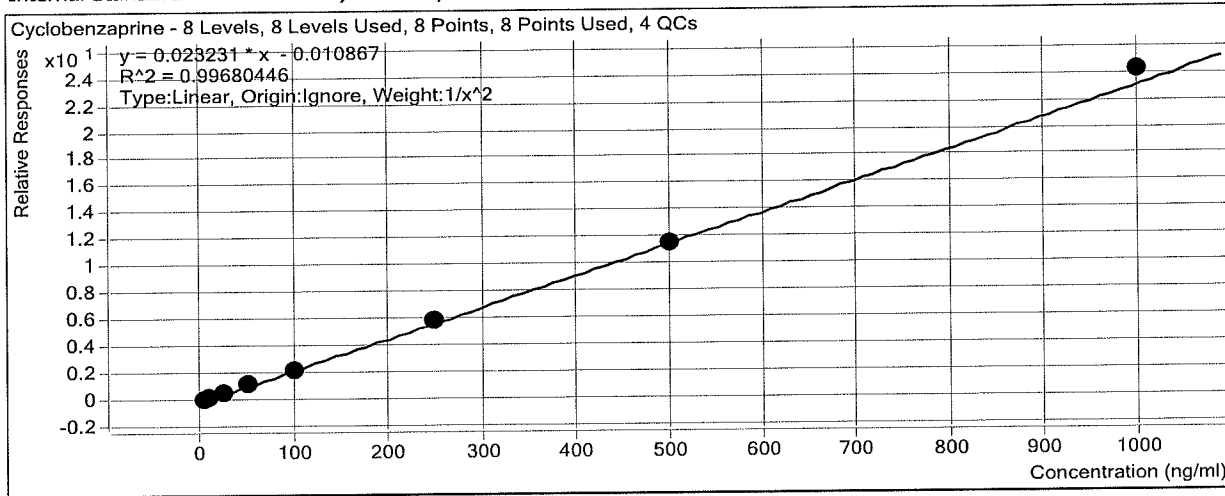**Last Calib Update**   11/5/2018 9:19 AM   **Analyst Name**   ISP TOX

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

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

y = 0.023231 * x - 0.010867
R^2 = 0.99680446
Type:Linear, Origin:Ignore, Weight:1/x^2

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng	1	☑	5	5.3	105.0
b cal 2-10ng	2	☑	10	9.1	91.3
b QC 10	2	☑	10	10.4	104.1
b cal 3-25ng	3	☑	25	23.7	94.6
b cal 4-50ng	4	☑	50	52.2	104.3
b cal 5-100ng	5	☑	100	99.1	99.1
b qc 100	5	☑	100	116.0	116.0
b cal 6-250ng	6	☑	250	253.1	101.3
b QC 250	6	☑	250	277.2	110.9
b cal 7-500ng	7	☑	500	501.5	100.3
b cal 8-1000ng	8	☑	1000	1041.7	104.2
b qc 1000	8	☑	1000	968.1	96.8

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1b-r.batch.bin

Last Calib Update   11/5/2018 9:19 AM   **Analyst Name**   ISP TOX

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

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

y = 0.071146 * x + 0.019130
R^2 = 0.99599568
Type:Linear, Origin:Ignore, Weight:1/x
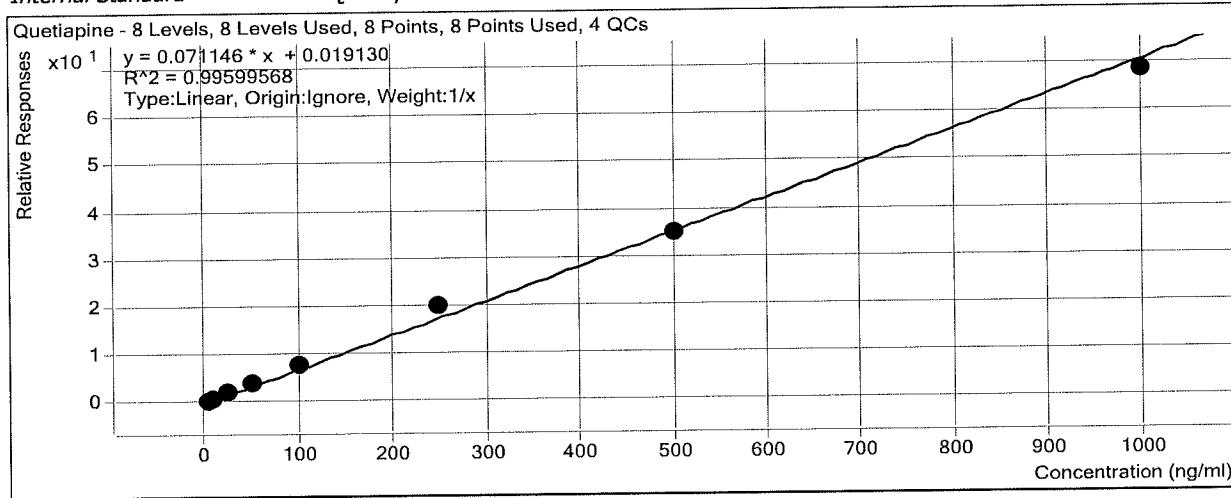
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng	1	☑	5	4.4	88.0
b cal 2-10ng	2	☑	10	8.5	85.3
b QC 10	2	☑	10	10.4	104.4
b cal 3-25ng	3	☑	25	25.5	101.9
b cal 4-50ng	4	☑	50	54.7	109.4
b cal 5-100ng	5	☑	100	106.9	106.9
b qc 100	5	☑	100	113.2	113.2
b cal 6-250ng	6	☑	250	283.1	113.2
b QC 250	6	☑	250	266.0	106.4
b cal 7-500ng	7	☑	500	495.3	99.1
b cal 8-1000ng	8	☑	1000	961.6	96.2
b qc 1000	8	☑	1000	975.6	97.6

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1b-r.batch.bin

Last Calib Update   11/5/2018 9:19 AM   **Analyst Name**   ISP TOX

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

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

y = 0.017918 * x - 0.003705
R^2 = 0.99888208
Type:Linear, Origin:Ignore, Weight:1/x

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng	1	☑	5	4.9	97.8
b cal 2-10ng	2	☑	10	10.4	103.8
b QC 10	2	☑	10	11.0	109.7
b cal 3-25ng	3	☑	25	25.2	100.7
b cal 4-50ng	4	☑	50	52.9	105.8
b cal 5-100ng	5	☑	100	96.6	96.6
b qc 100	5	☑	100	110.7	110.7
b cal 6-250ng	6	☑	250	231.2	92.5
b QC 250	6	☑	250	251.2	100.5
b cal 7-500ng	7	☑	500	509.1	101.8
b cal 8-1000ng	8	☑	1000	1009.8	101.0
b qc 1000	8	☑	1000	871.9	87.2

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1b-r.batch.bin

Last Calib Update   11/5/2018 9:19 AM   **Analyst Name**   ISP TOX

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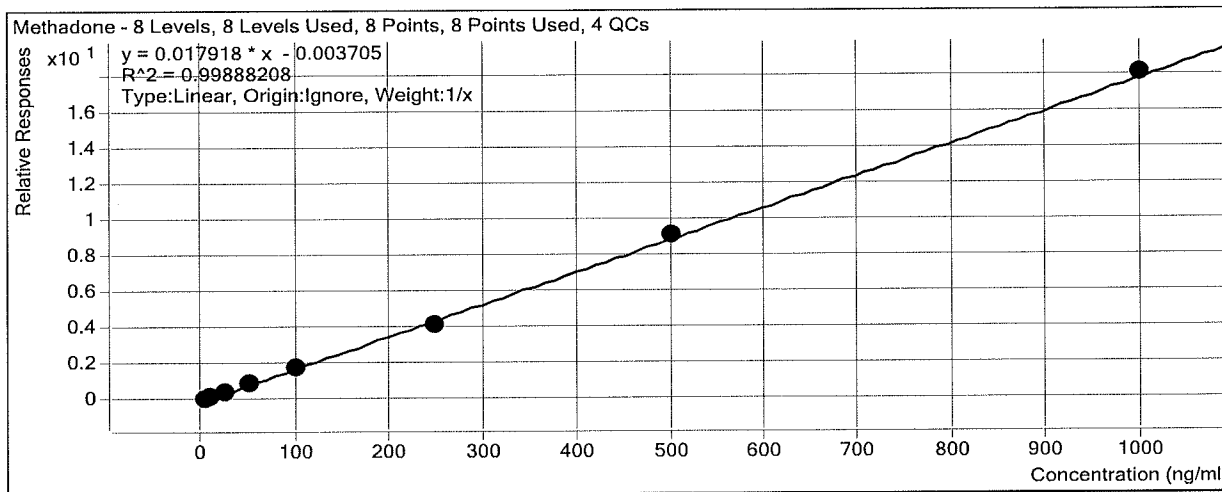*Internal Standard*   *Fluoxetine-D6*

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

y = 0.021395 * x - 0.006742
R^2 = 0.99947893
Type:Linear, Origin:Ignore, Weight:1/x

Relative Responses (x10 1) vs Concentration (ng/ml)

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng	1	☑	5	5.0	99.8
b cal 2-10ng	2	☑	10	9.4	94.3
b QC 10	2	☑	10	10.8	108.0
b cal 3-25ng	3	☑	25	24.2	96.7
b cal 4-50ng	4	☑	50	53.3	106.6
b cal 5-100ng	5	☑	100	100.1	100.1
b qc 100	5	☑	100	109.0	109.0
b cal 6-250ng	6	☑	250	261.3	104.5
b QC 250	6	☑	250	238.7	95.5
b cal 7-500ng	7	☑	500	493.6	98.7
b cal 8-1000ng	8	☑	1000	993.1	99.3
b qc 1000	8	☑	1000	996.5	99.6

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1b-r.batch.bin

Last Calib Update   11/5/2018 9:19 AM   **Analyst Name**   ISP TOX

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

Sertraline - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 4 QCs
y = 0.025717 * x - 0.016027
R^2 = 0.99950011
Type:Linear, Origin:Ignore, Weight:1/x

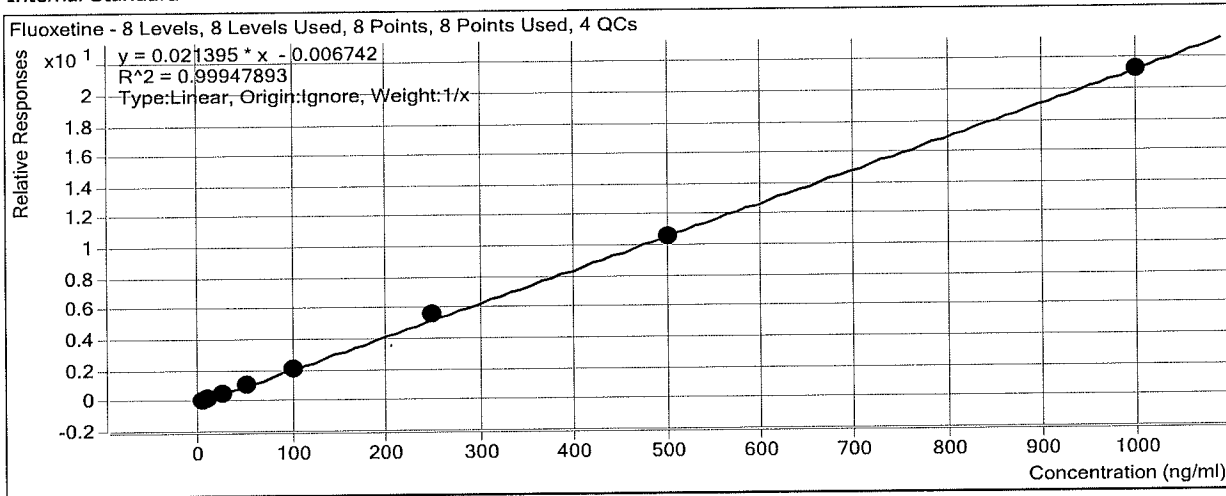| Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng	1	☑	5	5.3	105.2
b cal 2-10ng	2	☑	10	9.5	94.7
b QC 10	2	☑	10	10.4	103.9
b cal 3-25ng	3	☑	25	24.3	97.1
b cal 4-50ng	4	☑	50	51.8	103.6
b cal 5-100ng	5	☑	100	97.8	97.8
b qc 100	5	☑	100	92.4	92.4
b cal 6-250ng	6	☑	250	256.6	102.6
b QC 250	6	☑	250	200.2	80.1
b cal 7-500ng	7	☑	500	494.8	99.0
b cal 8-1000ng	8	☐	1000	1196.9	119.7
b qc 1000	8	☑	1000	869.3	86.9

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1b-r.batch.bin

Last Calib Update   11/5/2018 9:19 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

$y = 0.022810 * x - 0.014213$
$R^2 = 0.99472264$
Type:Linear, Origin:Ignore, Weight:$1/x^2$

Relative Responses — x10^1 — Concentration (ng/ml)

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng	1	☑	5	4.9	98.2
b cal 2-10ng	2	☑	10	10.2	101.9
b QC 10	2	☑	10	10.0	100.5
b cal 3-25ng	3	☑	25	26.3 ·	105.2
b cal 4-50ng	4	☑	50	49.5	99.0
b cal 5-100ng	5	☑	100	95.5	95.5
b qc 100	5	☑	100	115.8	115.8
b cal 6-250ng	6	☑	250	262.9	105.2
b QC 250	6	☑	250	271.9	108.8
b cal 7-500ng	7	☑	500	535.4	107.1
b cal 8-1000ng	8	☑	1000	878.6	87.9
b qc 1000	8	☑	1000	964.1	96.4

ISP Forensics
Calibration Curve Report

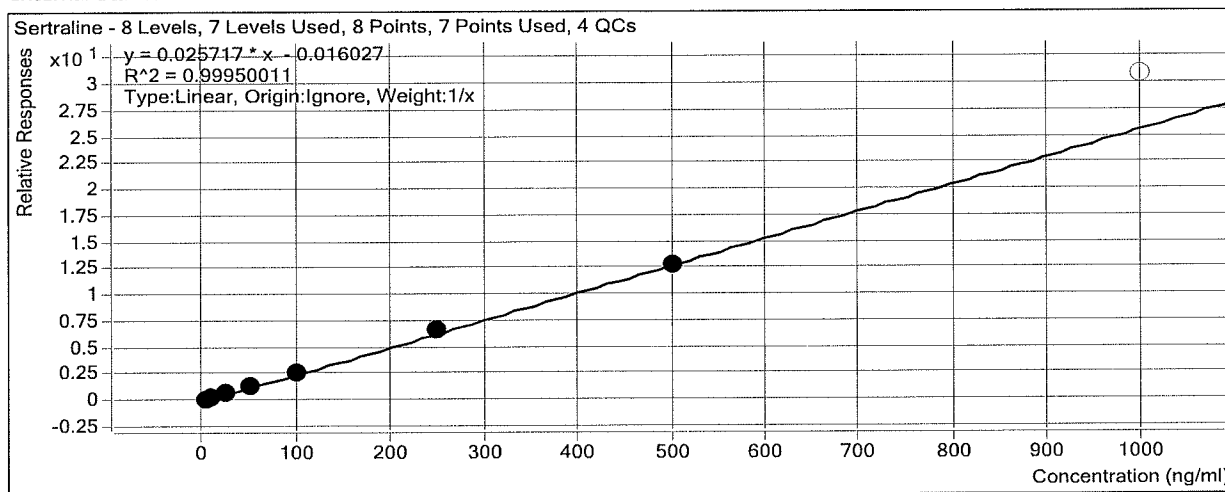**Batch Data Path**   D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1b-r.batch.bin

Last Calib Update   11/5/2018 9:19 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

$y = 0.023677 * x - 8.678807E\text{-}004$
$R^2 = 0.99777750$
Type:Linear, Origin:Ignore, Weight:1/x

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng	1	☑	5	4.9	98.7
b cal 2-10ng	2	☑	10	9.5	94.5
b QC 10	2	☑	10	9.6	95.8
b cal 3-25ng	3	☑	25	23.8	95.3
b cal 4-50ng	4	☑	50	52.1	104.1
b cal 5-100ng	5	☑	100	99.3	99.3
b qc 100	5	☑	100	110.1	110.1
b cal 6-250ng	6	☑	250	271.5	108.6
b QC 250	6	☑	250	278.1	111.3
b cal 7-500ng	7	☑	500	516.2	103.2
b cal 8-1000ng	8	☑	1000	962.8	96.3
b qc 1000	8	☑	1000	1061.4	106.1

ISP Forensics
Calibration Curve Report

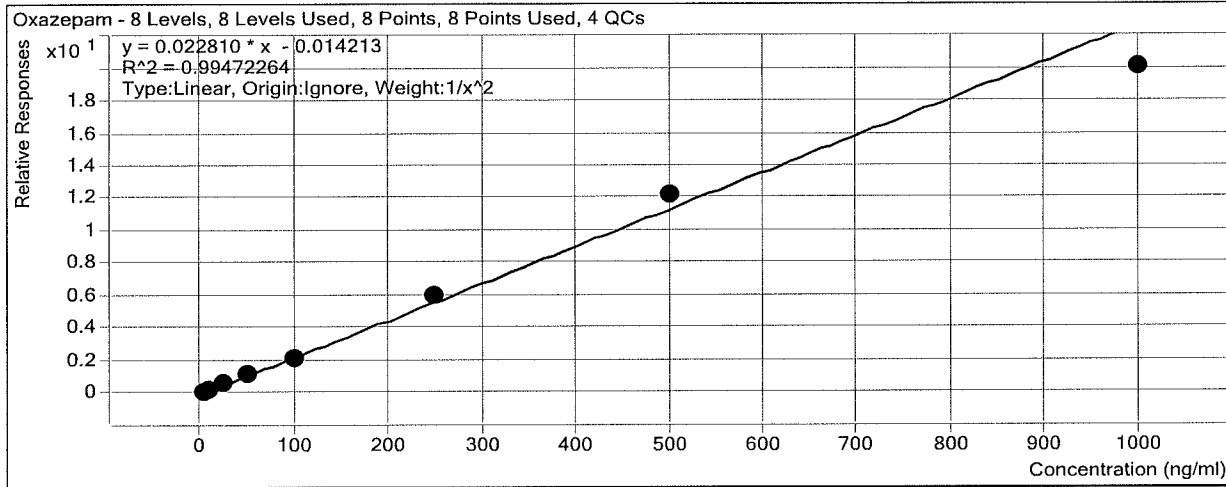**Batch Data Path**   D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1b-r.batch.bin

Last Calib Update   11/5/2018 9:19 AM   **Analyst Name**   ISP TOX

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

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

y = 0.025051 * x + 0.007890
R^2 = 0.9991167
Type:Linear, Origin:Ignore, Weight:1/x^2

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng	1	☐	0.5	0.2	37.0
b cal 2-10ng	2	☐	1	0.8	79.8
b QC 10	2	☑	1	0.6	60.0
b cal 3-25ng	3	☑	2.5	2.5	101.4
b cal 4-50ng	4	☑	5	4.9	98.2
b cal 5-100ng	5	☑	10	9.7	97.3
b qc 100	5	☑	10	11.9	119.5
b cal 6-250ng	6	☑	25	25.1	100.3
b QC 250	6	☑	25	24.1	96.4
b cal 7-500ng	7	☑	50	51.4	102.8
b cal 8-1000ng	8	☐	100	93.0	93.0
b qc 1000	8	☐	100	83.0	83.0

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1b-r.batch.bin

Last Calib Update   11/5/2018 9:19 AM   **Analyst Name**   ISP TOX
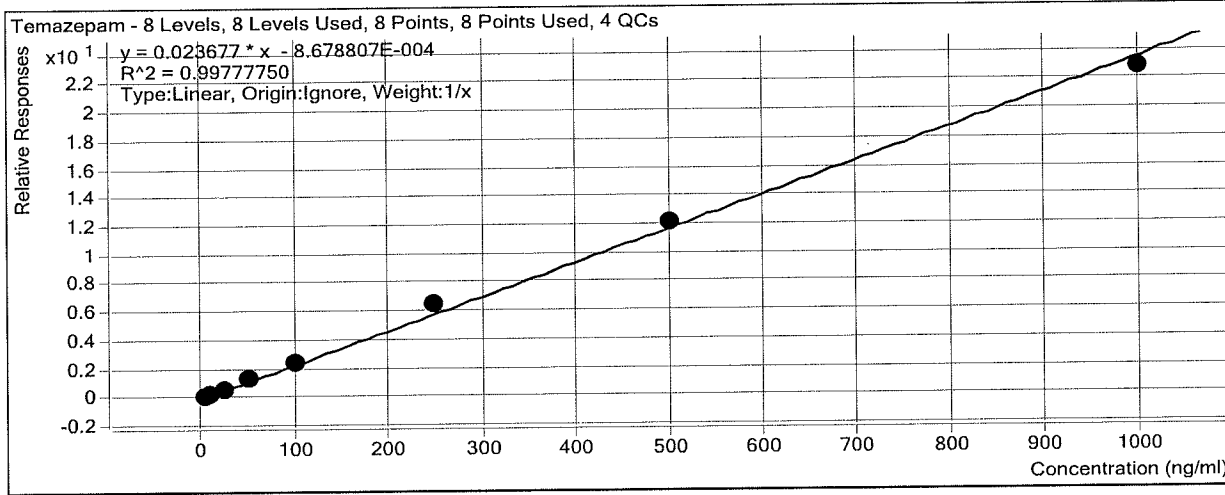
Target Compound   *Nordiazepam*
Internal Standard   *Nordiazepam-D5*

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

$y = 0.039212 * x - 0.009273$
$R^2 = 0.99586370$
Type:Linear, Origin:Ignore, Weight:1/x^2

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng	1	☑	5	5.0	99.6
b cal 2-10ng	2	☑	10	10.2	101.8
b QC 10	2	☑	10	8.9	88.6
b cal 3-25ng	3	☑	25	24.6	98.6
b cal 4-50ng	4	☑	50	50.0	100.0
b cal 5-100ng	5	☑	100	96.0	96.0
b qc 100	5	☑	100	112.0	112.0
b cal 6-250ng	6	☑	250	252.2	100.9
b QC 250	6	☑	250	259.5	103.8
b cal 7-500ng	7	☑	500	459.1	91.8
b cal 8-1000ng	8	☑	1000	1114.0	111.4
b qc 1000	8	☑	1000	967.0	96.7

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1b-r.batch.bin

Last Calib Update   11/5/2018 9:19 AM   **Analyst Name**   ISP TOX

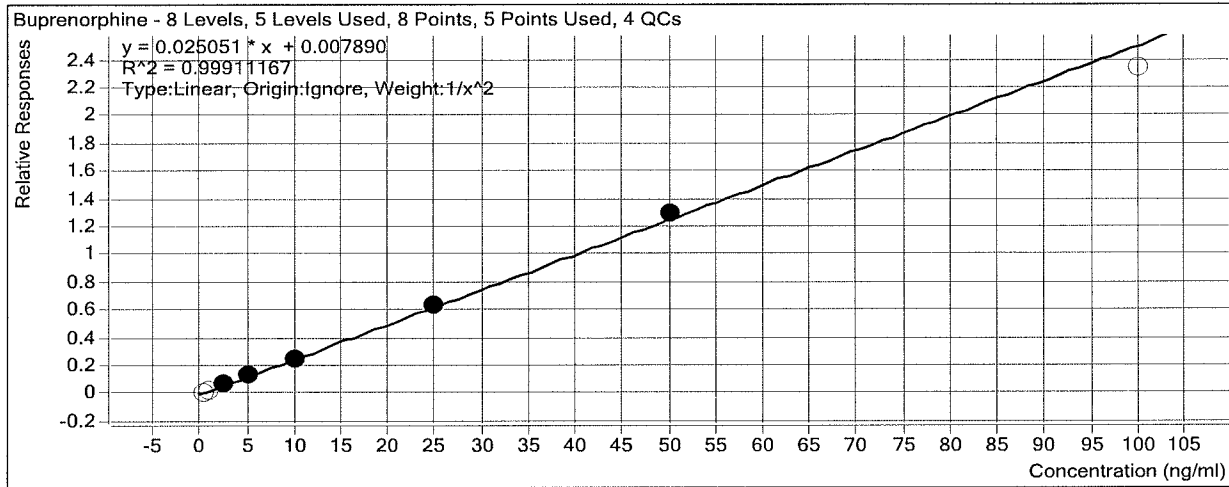### Target Compound   *Diazepam*
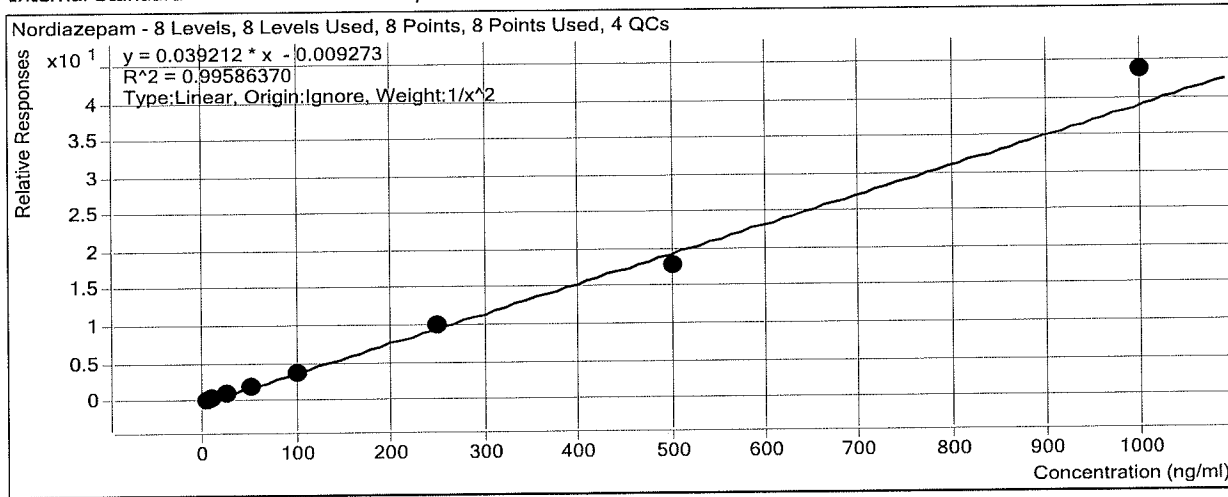*Internal Standard*   *Diazepam-D5*

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

y = 0.027282 * x - 0.004403
R^2 = 0.99963478
Type:Linear, Origin:Ignore, Weight:1/x
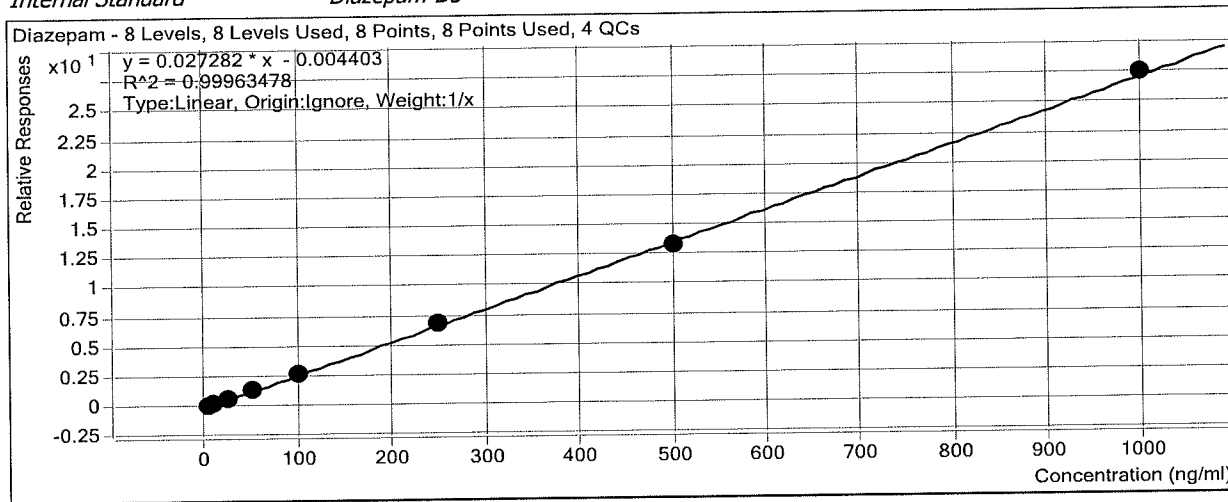
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
b cal 1-5ng	1	☑	5	4.7	94.0
b cal 2-10ng	2	☑	10	10.1	101.3
b QC 10	2	☑	10	8.5	84.9
b cal 3-25ng	3	☑	25	25.3	101.2
b cal 4-50ng	4	☑	50	53.1	106.1
b cal 5-100ng	5	☑	100	97.4	97.4
b qc 100	5	☑	100	109.0	109.0
b cal 6-250ng	6	☑	250	254.1	101.6
b QC 250	6	☑	250	265.9	106.4
b cal 7-500ng	7	☑	500	488.7	97.7
b cal 8-1000ng	8	☑	1000	1006.7	100.7
b qc 1000	8	☑	1000	1008.6	100.9

ISP FORENSICS - Cd'A Instrument # 62340
Multi-Drug Confirmatory Analysis Report

Batch Data Path	D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1b-r.batch.bin		
Analysis Time	11/5/2018 9:19 AM	**Analyst Name**	ISP Tox
Report Time	11/5/2018 9:23 AM	**Reporter Name**	ISP Tox
Last Calib Update	11/5/2018 9:19 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-10-31 15:22	**Data File**	b cal 1-5ng.d
Sample Type	Calibration	**Sample Name**	b cal 1-5ng
Dilution	1	**Acq Method**	b1 mdq 618.m
Position	P2-A1	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28 Panel 1

Sample Chromatogram

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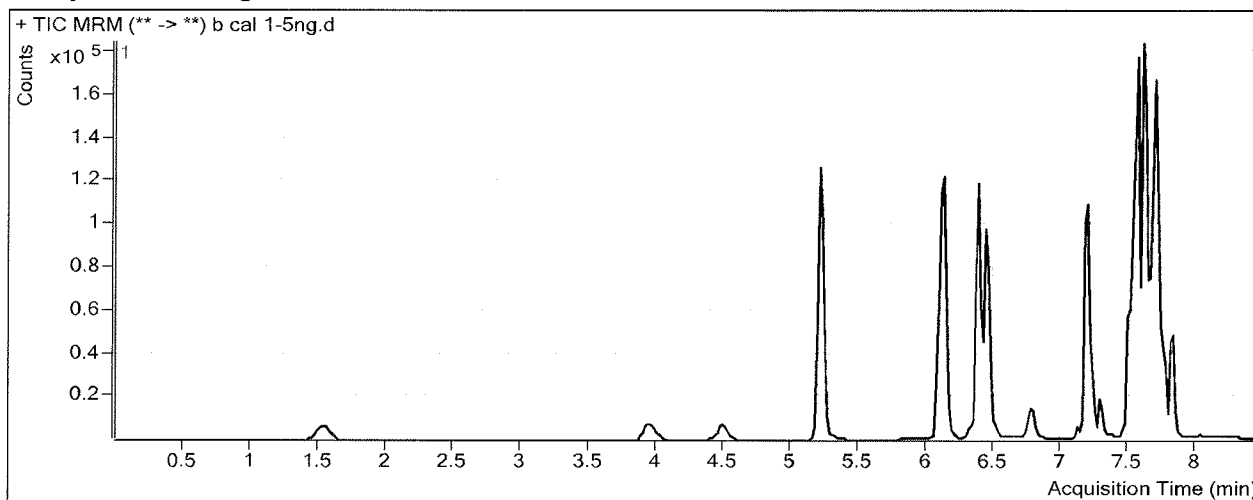
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Oxymorphone	Oxymorphone-D3	1.568	4330	39584	0.1094	5.1697
Dihydrocodeine	Dihydrocodeine-D6	4.010	4332	43014	0.1007	4.6295
Noroxycodone	Noroxycodone-D3	4.538	3954	33179	0.1192	5.3887
O-desmethyl-tramadol	O-desmethyl-tramadol-D6	5.239	38136	377603	0.1010	4.5455
Benzoylecgonine	Benzoylecgonine-d8	5.868	249	3302	0.0753	4.1257
Ketamine	Ketamine-D4	6.101	18050	142693	0.1265	4.9651
Norfentanyl	Norfentanyl-D5	6.144	3158	307491	0.0103	0.7665
Cocaine	Cocaine-d3	6.369	30980	299894	0.1033	5.0297
alpha-PVP	alpha-PVP-d8	6.445	30103	244989	0.1229	5.0404
Mirtazapine	alpha-PVP-d8	6.760	25402	244989	0.1037	5.2540
Norbuprenorphine	Norbuprenorphine-D3	7.133	187	12355	0.0151	0.3101
Fentanyl	Fentanyl-D5	7.196	3037	320394	0.0095	0.5445
Mitragynine	EDDP-D3	7.274	7648	24460	0.3127	5.2904
EDDP	EDDP-D3	7.287	1939	24460	0.0793	5.5602
Cyclobenzaprine	Cyclobenzaprine-D3	7.530	16748	150746	0.1111	5.2502
Quetiapine	Quetiapine-D8	7.497	38179	114908	0.3323	4.4012
Methadone	Methadone-D9	7.560	23092	275284	0.0839	4.8883
Fluoxetine	Fluoxetine-D6	7.602	33619	336293	0.1000	4.9877
Sertraline	Sertraline-D3	7.663	10173	85319	0.1192	5.2595
Oxazepam	Oxazepam-D5	7.646	11775	120434	0.0978	4.9095
Temazepam	Temazepam-D5	7.685	29303	252649	0.1160	4.9352
Buprenorphine	Buprenorphine-D4	7.775	1010	80579	0.0125	0.1852
Nordiazepam	Nordiazepam-D5	7.773	10332	55545	0.1860	4.9800

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Diazepam	Diazepam-D5	7.829	12413	100206	0.1239	4.7017

ISP FORENSICS - Cd'A Instrument # 62340
Multi-Drug Confirmatory Analysis Report

Batch Data Path	D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1b-r.batch.bin		
Analysis Time	11/5/2018 9:19 AM	**Analyst Name**	ISP Tox
Report Time	11/5/2018 9:23 AM	**Reporter Name**	ISP Tox
Last Calib Update	11/5/2018 9:19 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-10-31 15:47	**Data File**	b cal 2-10ng.d
Sample Type	Calibration	**Sample Name**	b cal 2-10ng
Dilution	1	**Acq Method**	b1 mdq 618.m
Position	P2-B1	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28 Panel 1

Sample Chromatogram

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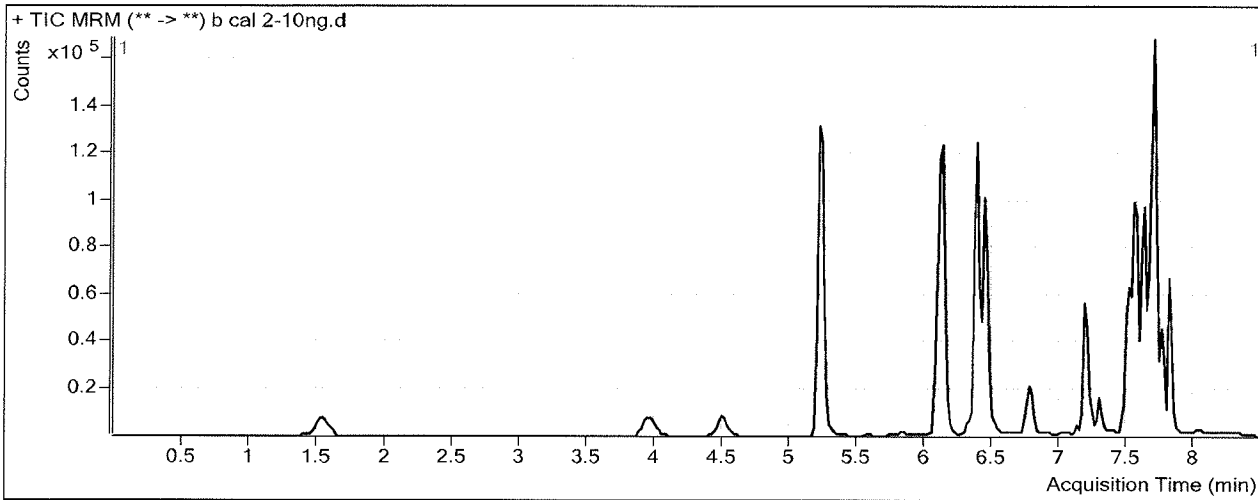
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Oxymorphone	Oxymorphone-D3	1.548	9132	40232	0.2270	9.9911
Dihydrocodeine	Dihydrocodeine-D6	3.990	8541	43385	0.1969	9.4490
Noroxycodone	Noroxycodone-D3	4.518	7917	31834	0.2487	10.0829
O-desmethyl-tramadol	O-desmethyl-tramadol-D6	5.239	79142	378258	0.2092	9.6580
Benzoylecgonine	Benzoylecgonine-d8	5.848	613	3287	0.1864	10.1547
Ketamine	Ketamine-D4	6.101	35895	139795	0.2568	9.9211
Norfentanyl	Norfentanyl-D5	6.144	5869	294818	0.0199	1.1594
Cocaine	Cocaine-d3	6.369	56942	284403	0.2002	9.5880
alpha-PVP	alpha-PVP-d8	6.445	53091	217107	0.2445	9.7432
Mirtazapine	alpha-PVP-d8	6.760	36306	217107	0.1672	8.3929
Norbuprenorphine	Norbuprenorphine-D3	7.113	93	7556	0.0123	0.1770
Fentanyl	Fentanyl-D5	7.196	2848	145060	0.0196	0.9958
Mitragynine	EDDP-D3	7.274	7807	15797	0.4942	8.3837
EDDP	EDDP-D3	7.287	3635	15797	0.2301	11.7579
Cyclobenzaprine	Cyclobenzaprine-D3	7.529	11599	57654	0.2012	9.1275
Quetiapine	Quetiapine-D8	7.497	53751	85865	0.6260	8.5299
Methadone	Methadone-D9	7.560	30904	169493	0.1823	10.3827
Fluoxetine	Fluoxetine-D6	7.602	22655	116190	0.1950	9.4287
Sertraline	Sertraline-D3	7.663	6149	27024	0.2275	9.4705
Oxazepam	Oxazepam-D5	7.626	24646	112881	0.2183	10.1949
Temazepam	Temazepam-D5	7.685	57711	258914	0.2229	9.4508
Buprenorphine	Buprenorphine-D4	7.775	1243	44584	0.0279	0.7976
Nordiazepam	Nordiazepam-D5	7.773	20572	52766	0.3899	10.1793

b cal 2

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Diazepam	Diazepam-D5	7.809	26134	96117	0.2719	10.1275

ISP FORENSICS - Cd'A Instrument # 62340
Multi-Drug Confirmatory Analysis Report

Batch Data Path	D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1b-r.batch.bin		
Analysis Time	11/5/2018 9:19 AM	**Analyst Name**	ISP Tox
Report Time	11/5/2018 9:23 AM	**Reporter Name**	ISP Tox
Last Calib Update	11/5/2018 9:19 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-10-31 16:13	**Data File**	b cal 3-25ng.d
Sample Type	Calibration	**Sample Name**	b cal 3-25ng
Dilution	1	**Acq Method**	b1 mdq 618.m
Position	P2-C1	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28 Panel 1

Sample Chromatogram

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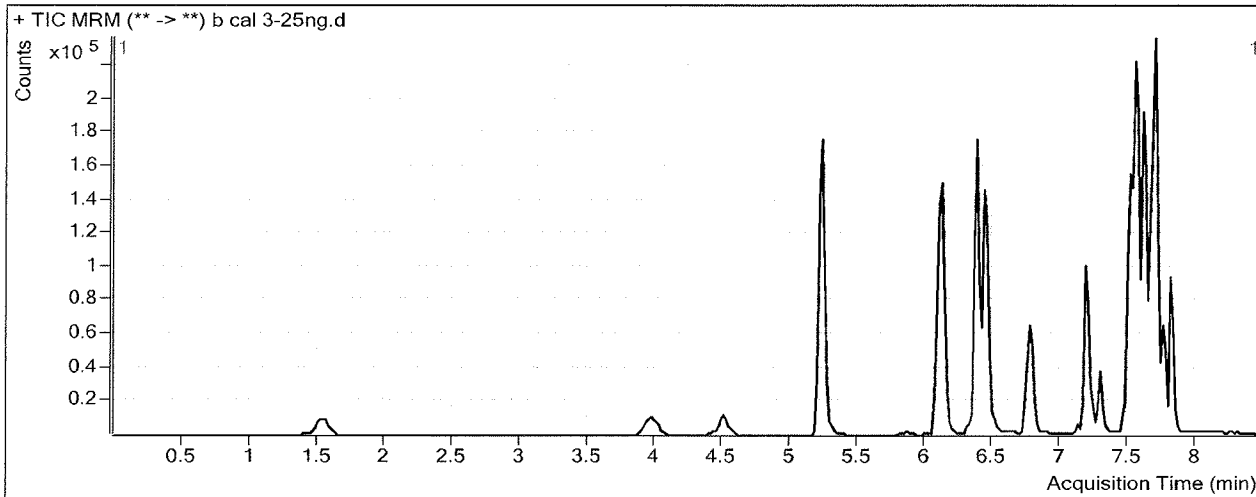
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Oxymorphone	Oxymorphone-D3	1.548	22075	37976	0.5813	24.5179
Dihydrocodeine	Dihydrocodeine-D6	4.010	22079	42116	0.5242	25.8555
Noroxycodone	Noroxycodone-D3	4.538	20058	31208	0.6427	24.3643
O-desmethyl-tramadol	O-desmethyl-tramadol-D6	5.239	205477	374808	0.5482	25.6709
Benzoylecgonine	Benzoylecgonine-d8	5.848	1300	3006	0.4325	23.5138
Ketamine	Ketamine-D4	6.101	93827	139527	0.6725	25.7354
Norfentanyl	Norfentanyl-D5	6.144	17286	302435	0.0572	2.6776
Cocaine	Cocaine-d3	6.369	159739	289887	0.5510	26.0894
alpha-PVP	alpha-PVP-d8	6.445	147139	231160	0.6365	24.8951
Mirtazapine	alpha-PVP-d8	6.760	120194	231160	0.5200	25.8186
Norbuprenorphine	Norbuprenorphine-D3	7.113	663	9957	0.0666	2.6867
Fentanyl	Fentanyl-D5	7.196	13059	236801	0.0551	2.5745
Mitragynine	EDDP-D3	7.274	34552	20833	1.6585	28.2226
EDDP	EDDP-D3	7.287	9613	20833	0.4614	21.2647
Cyclobenzaprine	Cyclobenzaprine-D3	7.529	59061	109654	0.5386	23.6526
Quetiapine	Quetiapine-D8	7.497	188021	102636	1.8319	25.4800
Methadone	Methadone-D9	7.560	112991	252511	0.4475	25.1799
Fluoxetine	Fluoxetine-D6	7.602	121442	237920	0.5104	24.1730
Sertraline	Sertraline-D3	7.663	35129	57768	0.6081	24.2690
Oxazepam	Oxazepam-D5	7.626	59405	101419	0.5857	26.3023
Temazepam	Temazepam-D5	7.685	139171	247152	0.5631	23.8193
Buprenorphine	Buprenorphine-D4	7.755	4541	63607	0.0714	2.5348
Nordiazepam	Nordiazepam-D5	7.753	49051	51250	0.9571	24.6442

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Diazepam	Diazepam-D5	7.809	65713	95842	0.6856	25.2926

ISP FORENSICS - Cd'A Instrument # 62340
Multi-Drug Confirmatory Analysis Report

Batch Data Path	D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1b-r.batch.bin		
Analysis Time	11/5/2018 9:19 AM	**Analyst Name**	ISP Tox
Report Time	11/5/2018 9:23 AM	**Reporter Name**	ISP Tox
Last Calib Update	11/5/2018 9:19 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-10-31 16:38	**Data File**	b cal 4-50ng.d
Sample Type	Calibration	**Sample Name**	b cal 4-50ng
Dilution	1	**Acq Method**	b1 mdq 618.m
Position	P2-D1	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28 Panel 1

Sample Chromatogram

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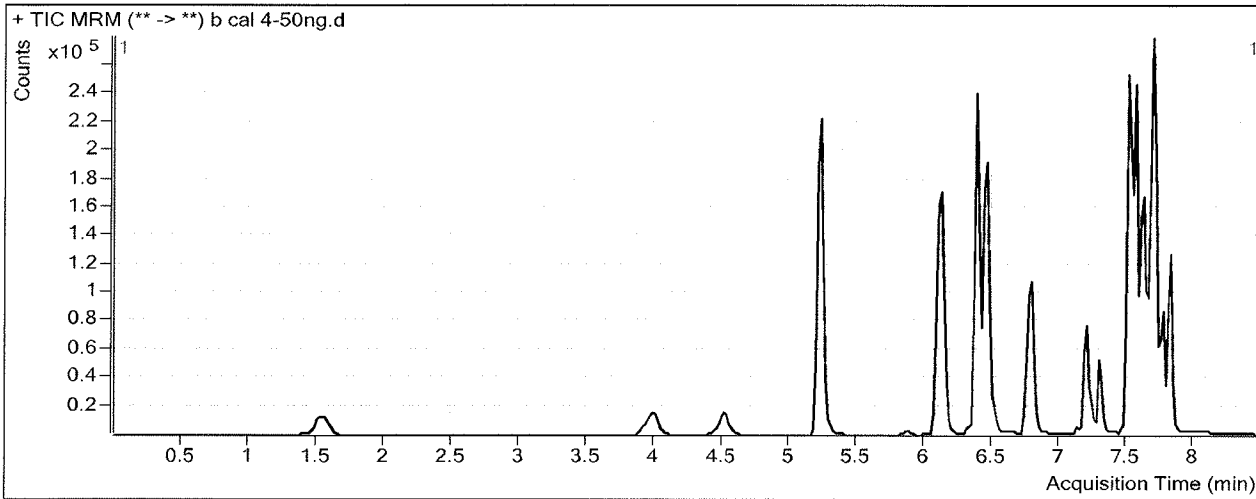
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Oxymorphone	Oxymorphone-D3	1.548	41621	34666	1.2006	49.9118
Dihydrocodeine	Dihydrocodeine-D6	3.990	42702	40084	1.0653	52.9724
Noroxycodone	Noroxycodone-D3	4.538	37066	27838	1.3315	49.3289
O-desmethyl-tramadol	O-desmethyl-tramadol-D6	5.239	397833	352112	1.1298	53.1452
Benzoylecgonine	Benzoylecgonine-d8	5.868	2678	2800	0.9565	51.9574
Ketamine	Ketamine-D4	6.101	180826	131694	1.3731	52.3890
Norfentanyl	Norfentanyl-D5	6.144	32732	279763	0.1170	5.1167
Cocaine	Cocaine-d3	6.369	308231	276276	1.1157	52.6471
alpha-PVP	alpha-PVP-d8	6.465	279389	207629	1.3456	52.3045
Mirtazapine	alpha-PVP-d8	6.779	210554	207629	1.0141	50.2295
Norbuprenorphine	Norbuprenorphine-D3	7.133	774	8099	0.0956	4.0246
Fentanyl	Fentanyl-D5	7.196	18416	177845	0.1036	4.7265
Mitragynine	EDDP-D3	7.274	54872	19375	2.8321	48.2197
EDDP	EDDP-D3	7.287	20412	19375	1.0535	45.5965
Cyclobenzaprine	Cyclobenzaprine-D3	7.529	80620	67120	1.2011	52.1712
Quetiapine	Quetiapine-D8	7.497	326756	83535	3.9116	54.7115
Methadone	Methadone-D9	7.560	164352	174045	0.9443	52.9087
Fluoxetine	Fluoxetine-D6	7.602	154661	136442	1.1335	53.2967
Sertraline	Sertraline-D3	7.663	43658	33158	1.3167	51.8220
Oxazepam	Oxazepam-D5	7.646	97768	87651	1.1154	49.5237
Temazepam	Temazepam-D5	7.685	263471	213890	1.2318	52.0622
Buprenorphine	Buprenorphine-D4	7.775	6380	48725	0.1309	4.9122
Nordiazepam	Nordiazepam-D5	7.773	91573	46950	1.9505	49.9774

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Diazepam	Diazepam-D5	7.829	126312	87518	1.4433	53.0627

ISP FORENSICS - Cd'A Instrument # 62340
Multi-Drug Confirmatory Analysis Report

Batch Data Path	D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1b-r.batch.bin		
Analysis Time	11/5/2018 9:19 AM	**Analyst Name**	ISP Tox
Report Time	11/5/2018 9:23 AM	**Reporter Name**	ISP Tox
Last Calib Update	11/5/2018 9:19 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-10-31 17:03	**Data File**	b cal 5-100ng.d
Sample Type	Calibration	**Sample Name**	b cal 5-100ng
Dilution	1	**Acq Method**	b1 mdq 618.m
Position	P2-E1	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28 Panel 1

Sample Chromatogram

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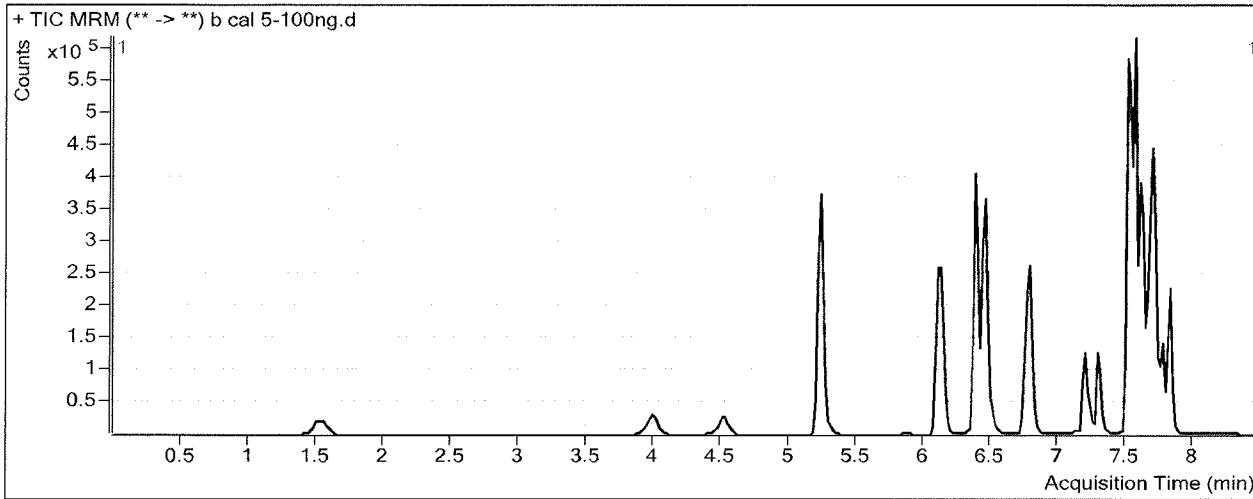
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Oxymorphone	Oxymorphone-D3	1.548	85346	36059	2.3668	97.7273
Dihydrocodeine	Dihydrocodeine-D6	4.010	90265	43146	2.0921	104.4307
Noroxycodone	Noroxycodone-D3	4.538	74487	28861	2.5809	94.6151
O-desmethyl-tramadol	O-desmethyl-tramadol-D6	5.239	832963	385883	2.1586	101.7396
Benzoylecgonine	Benzoylecgonine-d8	5.868	5725	3094	1.8505	100.4834
Ketamine	Ketamine-D4	6.101	388441	147076	2.6411	100.6283
Norfentanyl	Norfentanyl-D5	6.144	68589	310105	0.2212	9.3630
Cocaine	Cocaine-d3	6.369	652069	300094	2.1729	102.3747
alpha-PVP	alpha-PVP-d8	6.465	632588	240863	2.6263	101.8097
Mirtazapine	alpha-PVP-d8	6.779	509605	240863	2.1157	104.6531
Norbuprenorphine	Norbuprenorphine-D3	7.133	2500	10224	0.2445	10.9052
Fentanyl	Fentanyl-D5	7.196	55908	259582	0.2154	9.6975
Mitragynine	EDDP-D3	7.274	151948	25619	5.9311	101.0252
EDDP	EDDP-D3	7.287	55710	25619	2.1746	91.6666
Cyclobenzaprine	Cyclobenzaprine-D3	7.530	273437	119395	2.2902	99.0513
Quetiapine	Quetiapine-D8	7.497	817210	107209	7.6226	106.8720
Methadone	Methadone-D9	7.560	447398	259014	1.7273	96.6077
Fluoxetine	Fluoxetine-D6	7.602	530725	248568	2.1351	100.1117
Sertraline	Sertraline-D3	7.663	153490	61425	2.4988	97.7905
Oxazepam	Oxazepam-D5	7.646	148915	68814	2.1640	95.4945
Temazepam	Temazepam-D5	7.685	492232	209526	2.3493	99.2583
Buprenorphine	Buprenorphine-D4	7.775	18644	74121	0.2515	9.7262
Nordiazepam	Nordiazepam-D5	7.773	167436	44597	3.7544	95.9821

bcal5

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Diazepam	Diazepam-D5	7.829	251260	94750	2.6518	97.3608

ISP FORENSICS - Cd'A Instrument # 62340
Multi-Drug Confirmatory Analysis Report

Batch Data Path	D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1b-r.batch.bin
Analysis Time	11/5/2018 9:19 AM **Analyst Name** ISP Tox
Report Time	11/5/2018 9:23 AM **Reporter Name** ISP Tox
Last Calib Update	11/5/2018 9:19 AM **Batch State** Processed

Analysis Info

Acq Time	2018-10-31 17:29	**Data File**	b cal 6-250ng.d
Sample Type	Calibration	**Sample Name**	b cal 6-250ng
Dilution	1	**Acq Method**	b1 mdq 618.m
Position	P2-F1	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28 Panel 1

Sample Chromatogram

+ TIC MRM (** -> **) b cal 6-250ng.d
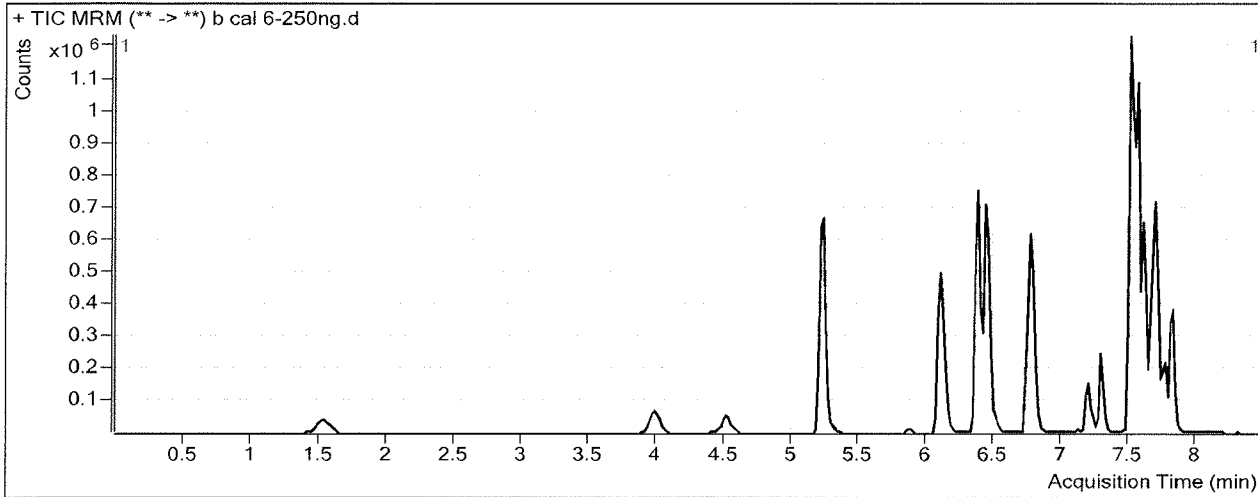
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Oxymorphone	Oxymorphone-D3	1.548	189521	30836	6.1461	252.6822
Dihydrocodeine	Dihydrocodeine-D6	3.990	210056	41549	5.0557	252.9541
Noroxycodone	Noroxycodone-D3	4.518	164604	23788	6.9198	251.8747
O-desmethyl-tramadol	O-desmethyl-tramadol-D6	5.239	1982809	363155	5.4600	257.6853
Benzoylecgonine	Benzoylecgonine-d8	5.848	15048	3172	4.7447	257.5867
Ketamine	Ketamine-D4	6.101	907772	134735	6.7374	256.4664
Norfentanyl	Norfentanyl-D5	6.144	166890	283739	0.5882	24.3217
Cocaine	Cocaine-d3	6.369	1467785	273508	5.3665	252.5906
alpha-PVP	alpha-PVP-d8	6.445	1424943	214189	6.6527	257.4469
Mirtazapine	alpha-PVP-d8	6.760	1148652	214189	5.3628	265.0634
Norbuprenorphine	Norbuprenorphine-D3	7.113	4679	8454	0.5534	25.1708
Fentanyl	Fentanyl-D5	7.196	125173	229431	0.5456	24.3765
Mitragynine	EDDP-D3	7.274	296355	19631	15.0959	257.1880
EDDP	EDDP-D3	7.287	120265	19631	6.1261	254.0539
Cyclobenzaprine	Cyclobenzaprine-D3	7.529	568985	96939	5.8695	253.1268
Quetiapine	Quetiapine-D8	7.497	1783421	88457	20.1614	283.1128
Methadone	Methadone-D9	7.560	928345	224324	4.1384	231.1713
Fluoxetine	Fluoxetine-D6	7.602	1038523	185958	5.5847	261.3467
Sertraline	Sertraline-D3	7.663	299093	45439	6.5823	256.5769
Oxazepam	Oxazepam-D5	7.626	201451	33667	5.9836	262.9490
Temazepam	Temazepam-D5	7.685	925385	143952	6.4284	271.5433
Buprenorphine	Buprenorphine-D4	7.755	39060	61384	0.6363	25.0871
Nordiazepam	Nordiazepam-D5	7.773	312600	31642	9.8792	252.1776

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Diazepam	Diazepam-D5	7.829	558664	80648	6.9272	254.0668

ISP FORENSICS - Cd'A Instrument # 62340
Multi-Drug Confirmatory Analysis Report

Batch Data Path	D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1b-r.batch.bin		
Analysis Time	11/5/2018 9:19 AM	**Analyst Name**	ISP Tox
Report Time	11/5/2018 9:23 AM	**Reporter Name**	ISP Tox
Last Calib Update	11/5/2018 9:19 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-10-31 17:54	**Data File**	b cal 7-500ng.d
Sample Type	Calibration	**Sample Name**	b cal 7-500ng
Dilution	1	**Acq Method**	b1 mdq 618.m
Position	P2-G1	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28 Panel 1

Sample Chromatogram

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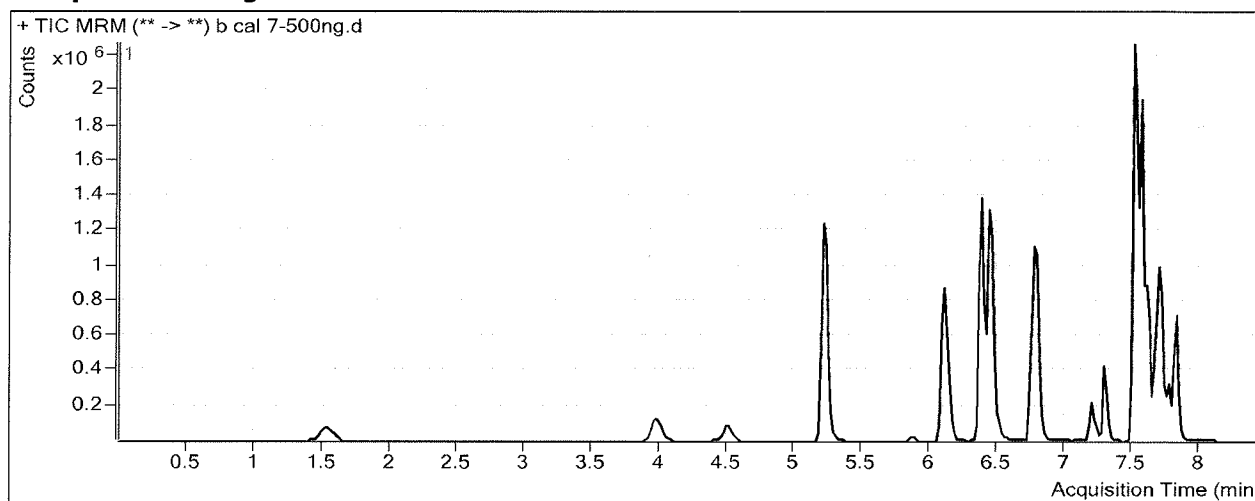
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Oxymorphone	Oxymorphone-D3	1.548	371272	30815	12.0485	494.6852
Dihydrocodeine	Dihydrocodeine-D6	3.970	403172	41225	9.7798	489.7088
Noroxycodone	Noroxycodone-D3	4.518	299201	21963	13.6227	494.8229
O-desmethyl-tramadol	O-desmethyl-tramadol-D6	5.219	3894541	368010	10.5827	499.6683
Benzoylecgonine	Benzoylecgonine-d8	5.848	32915	3063	10.7453	583.3083
Ketamine	Ketamine-D4	6.101	1811477	140825	12.8633	489.5146
Norfentanyl	Norfentanyl-D5	6.144	326946	276034	1.1844	48.6245
Cocaine	Cocaine-d3	6.369	2897274	287640	10.0726	473.9448
alpha-PVP	alpha-PVP-d8	6.445	2902462	231132	12.5576	485.6949
Mirtazapine	alpha-PVP-d8	6.760	2269478	231132	9.8190	485.2068
Norbuprenorphine	Norbuprenorphine-D3	7.113	9202	8796	1.0462	47.9290
Fentanyl	Fentanyl-D5	7.196	218111	200630	1.0871	48.4507
Mitragynine	EDDP-D3	7.274	479588	23239	20.6374	351.6120
EDDP	EDDP-D3	7.287	285209	23239	12.2730	506.6607
Cyclobenzaprine	Cyclobenzaprine-D3	7.529	872984	75007	11.6387	501.4644
Quetiapine	Quetiapine-D8	7.497	3305668	93762	35.2560	495.2779
Methadone	Methadone-D9	7.560	1937910	212542	9.1178	509.0697
Fluoxetine	Fluoxetine-D6	7.602	1485790	140789	10.5533	493.5801
Sertraline	Sertraline-D3	7.663	399946	31470	12.7090	494.8114
Oxazepam	Oxazepam-D5	7.646	248198	20348	12.1975	535.3693
Temazepam	Temazepam-D5	7.705	1563123	127911	12.2204	516.1676
Buprenorphine	Buprenorphine-D4	7.775	71494	55210	1.2949	51.3781
Nordiazepam	Nordiazepam-D5	7.773	472426	26255	17.9940	459.1247

b cal 7

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Diazepam	Diazepam-D5	7.829	1037255	77823	13.3283	488.6933

ISP FORENSICS - Cd'A Instrument # 62340
Multi-Drug Confirmatory Analysis Report

Batch Data Path	D:\2018 Data\103118 mdq\QuantResults\10312018 MDQp1b-r.batch.bin		
Analysis Time	11/5/2018 9:19 AM	**Analyst Name**	ISP Tox
Report Time	11/5/2018 9:23 AM	**Reporter Name**	ISP Tox
Last Calib Update	11/5/2018 9:19 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-10-31 18:20	**Data File**	b cal 8-1000ng.d
Sample Type	Calibration	**Sample Name**	b cal 8-1000ng
Dilution	1	**Acq Method**	b1 mdq 618.m
Position	P2-H1	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28 Panel 1

Sample Chromatogram

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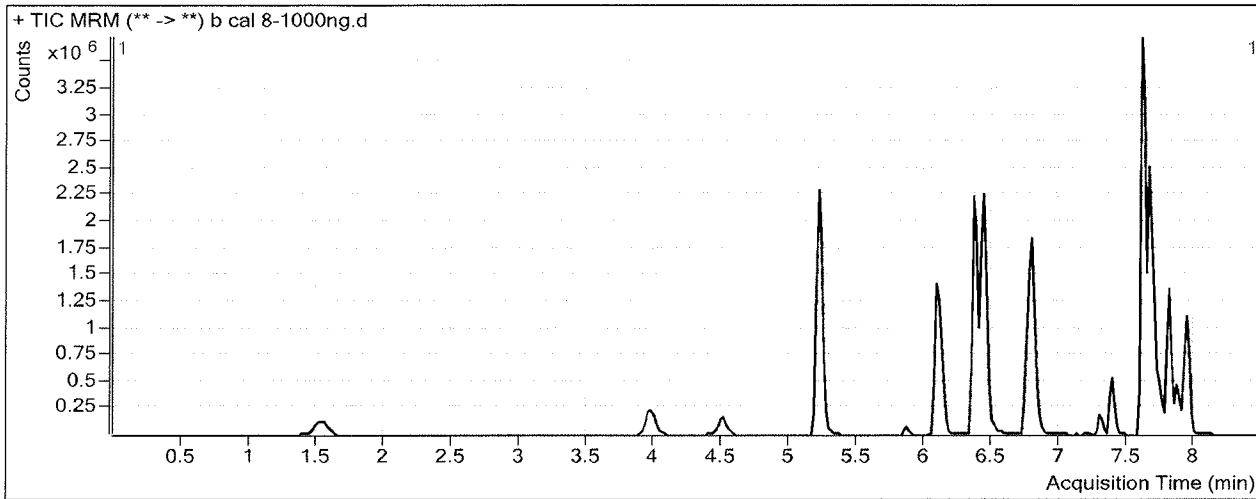
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Oxymorphone	Oxymorphone-D3	1.548	656052	27020	24.2806	996.2104
Dihydrocodeine	Dihydrocodeine-D6	3.970	759293	44166	17.1916	861.1635
Noroxycodone	Noroxycodone-D3	4.518	511139	18371	27.8233	1009.5226
O-desmethyl-tramadol	O-desmethyl-tramadol-D6	5.219	7332543	350533	20.9183	987.8872
Benzoylecgonine	Benzoylecgonine-d8	5.848	93901	3264	28.7678	1561.6004
Ketamine	Ketamine-D4	6.081	3257761	133791	24.3495	926.4859
Norfentanyl	Norfentanyl-D5	6.144	611953	244419	2.5037	102.3965
Cocaine	Cocaine-d3	6.349	5072099	249402	20.3371	956.7466
alpha-PVP	alpha-PVP-d8	6.445	5107123	206465	24.7360	956.4393
Mirtazapine	alpha-PVP-d8	6.779	4159460	206465	20.1460	995.3816
Norbuprenorphine	Norbuprenorphine-D3	7.192	12377	5351	2.3132	106.4468
Fentanyl	Fentanyl-D5	7.277	255157	110650	2.3060	102.6341
Mitragynine	EDDP-D3	7.374	467930	24560	19.0525	324.6057
EDDP	EDDP-D3	7.386	598321	24560	24.3616	1003.4395
Cyclobenzaprine	Cyclobenzaprine-D3	7.650	653390	27011	24.1895	1041.7253
Quetiapine	Quetiapine-D8	7.597	6244413	91247	68.4339	961.6147
Methadone	Methadone-D9	7.661	2419264	133737	18.0897	1009.7916
Fluoxetine	Fluoxetine-D6	7.723	808109	38047	21.2399	993.0753
Sertraline	Sertraline-D3	7.785	187259	6087	30.7642	1196.8916
Oxazepam	Oxazepam-D5	7.748	308726	15416	20.0257	878.5603
Temazepam	Temazepam-D5	7.806	2489653	109222	22.7944	962.7633
Buprenorphine	Buprenorphine-D4	7.875	72020	30810	2.3376	92.9993
Nordiazepam	Nordiazepam-D5	7.874	643246	14729	43.6718	1113.9655

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Diazepam	Diazepam-D5	7.928	1624525	59158	27.4607	1006.6947