Worklist: 2451

LAB CASE	ITEM	TASK ID	DESCRIPTION	
C2018-0944	1	117686	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2018-0998	1	117687	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2018-1012	1	117688	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2018-1014	1	117689	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2018-1019	1	117690	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2018-1025	1	117691	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2018-1057	1	117692	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	

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

Extraction Date: 6-5/18 Analyst: _Anne Nord_
Plate lot#: 0507680 Plate Expiration: 6-5-2018

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: 17J20718   **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.
        Worklist path: 06062018   Batch Name: *mdq p1a*
☒ 2. Make necessary changes to integration limits
☒ 3. Integration linear and R^2 values ≥0.98 for each analyte.
☒ 4. For unknown samples and controls: response ratio within 20% of average of controls and standards, RT within +/- 5% (tramadol RT +/-2%), S/N for primary transition >10 and secondary transitions >5.
☒ 5. Did all QCs pass for each analyte? Ⓨ/ N _Did not run 1000 QC sample was not injected_ Add Control data to QC tracking spreadsheet.
☒ 6. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports.

COMMENTS: alprazolam reported qualitatively, due to low concentration on external control.
Only ran panel 1a
Limited curve ranges:
6 monoacetylmorphine 1-100   Norhydrocodone 10-1000   Lorazepam 5-250
Morphine 10-1000   Phentermine 10-1000   codeine 10-1000
Methamphetamine dropped 25ng calibrator peak had a flat top.
10ng

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

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

Batch Data Path	D:\2018 Data\06062018 mdq\QuantResults\mdq p1a.batch.bin		
Analysis Time	6/6/2018 9:26 AM	**Analyst Name**	ISP Tox
Report Time	6/6/2018 9:28 AM	**Reporter Name**	ISP Tox
Last Calib Update	6/6/2018 9:26 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-06-05 13:51	**Data File**	a negative control.d
Sample Type	Sample	**Sample Name**	a negative control
Dilution	1	**Acq Method**	Quant Panel 1a 10-17.m
Position	P2-E2	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28 Panel 1

Sample Chromatogram

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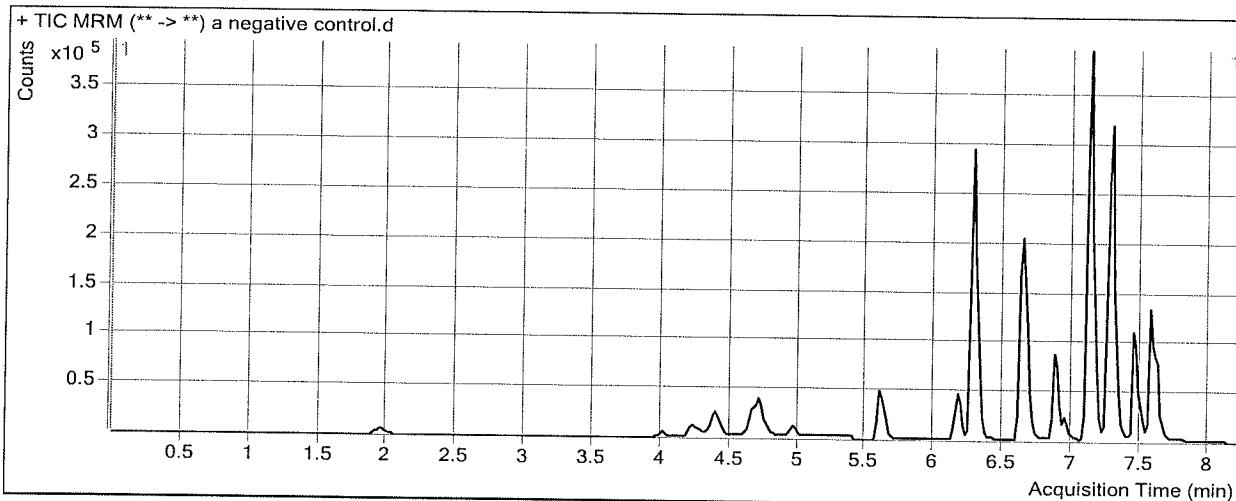
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc	
Citalopram	Citalopram-D6	7.237	1805	318498	0.0057	0.4388	< 5
Diphenhydramine	Diphenhydramine-D3	7.291	1986	520955	0.0038	0.4109	< 5

Batch Data Path   D:\2018 Data\06062018 mdq\QuantResults\mdq p1a.batch.bin

Analysis Time	6/6/2018 9:26 AM	**Analyst Name**	ISP Tox
Report Time	6/6/2018 9:28 AM	**Reporter Name**	ISP Tox
Last Calib Update	6/6/2018 9:26 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-06-05 14:04	**Data File**	a External control-50ng mL.d
Sample Type	Sample	**Sample Name**	a External control-50ng mL
Dilution	1	**Acq Method**	Quant Panel 1a 10-17.m
Position	P2-F2	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28; external control p1

Sample Chromatogram

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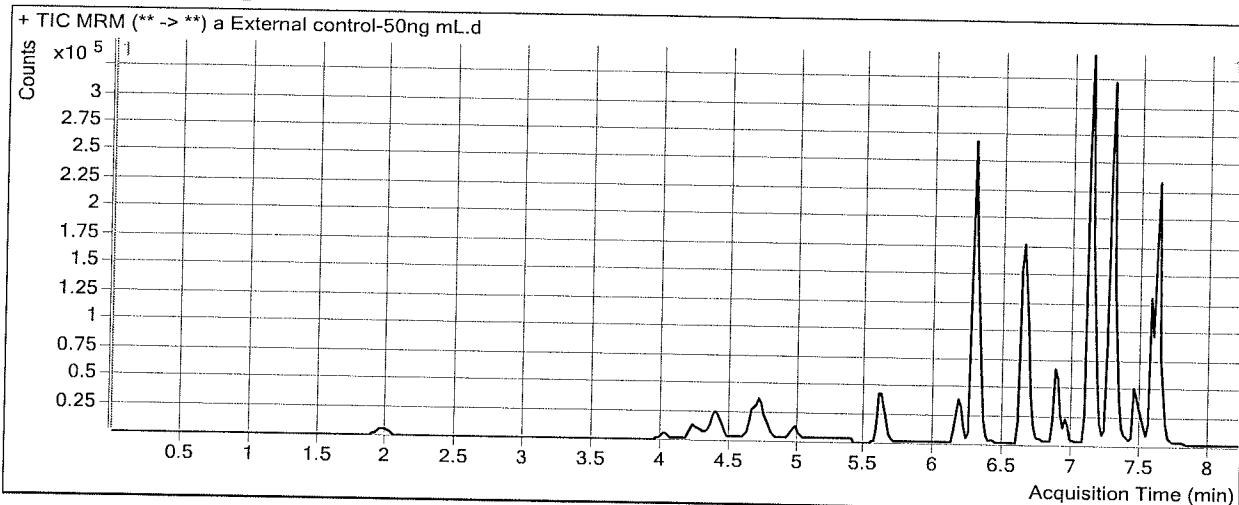
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Diphenhydramine	Diphenhydramine-D3	7.291	269115	325367	0.8271	42.4115
Lorazepam	Clonazepam-D4	7.602	42418	26992	1.5715	46.5261
Alprazolam	Alprazolam-D5	7.626	174485	176002	0.9914	38.8738

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

Batch Data Path	D:\2018 Data\06062018 mdq\QuantResults\mdq p1a.batch.bin		
Analysis Time	6/6/2018 9:26 AM	**Analyst Name**	ISP Tox
Report Time	6/6/2018 9:28 AM	**Reporter Name**	ISP Tox
Last Calib Update	6/6/2018 9:26 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-06-05 14:17	**Data File**	a QC 10.d
Sample Type	QC	**Sample Name**	a QC 10
Dilution	1	**Acq Method**	Quant Panel 1a 10-17.m
Position	P2-A2	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28 Panel 1
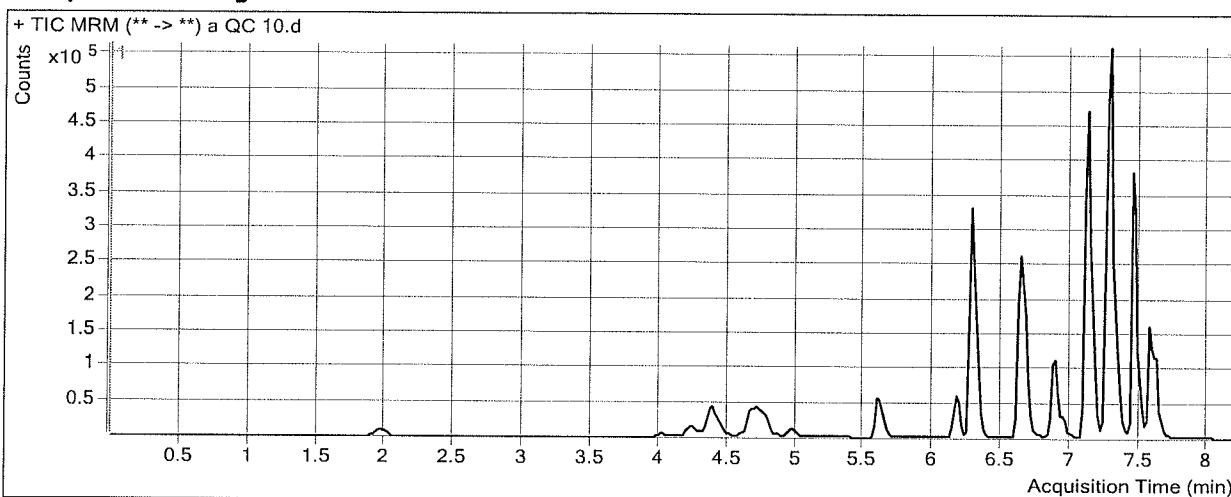
Sample Chromatogram

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

Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.328	2631	2611	1.0077	9.9094
Hydromorphone	Hydromorphone-D6	1.989	11479	42909	0.2675	9.5868
Codeine	Codeine-D6	4.095	5009	22617	0.2215	10.2772
Amphetamine	Amphetamine-D11	4.383	62267	67208	0.9265	11.0319
Oxycodone	Oxycodone-D6	4.449	25924	108764	0.2383	10.1508
Hydrocodone	Hydrocodone-D6	4.774	16217	93350	0.1737	9.1145
Norhydrocodone	Norhydrocodone-D3	4.779	1378	34542	0.0399	11.4423
Methamphetamine	Methamphetamine-D11	4.782	49465	147675	0.3350	8.3450
6-MAM	6-MAM-D6	4.968	877	34352	0.0255	1.0916
Phentermine	Phentermine-D5	5.666	13314	207730	0.0641	9.6361
Dextrorphan	Dextrorphan-D3	6.163	16549	139691	0.1185	9.4568
7-aminoclonazepam	7-Aminoclonazepam-D4	6.292	27479	120992	0.2271	9.5026
Tramadol	Tramadol-13C-D3	6.302	152297	741408	0.2054	10.0357
Doxylamine	Doxylamine-D5	6.662	136678	723173	0.1890	9.4313
Bupropion	Bupropion-D9	6.890	62770	317287	0.1978	9.6519
Meprobamate	Meprobamate-D7	6.972	8563	52252	0.1639	10.2674
Venlafaxine	Venlafaxine-D6	7.105	147428	676682	0.2179	9.8460
Trazodone	Trazodone-D6	7.316	75997	347978	0.2184	9.5579
Zolpidem	Zolpidem-D6	7.142	106428	533169	0.1996	9.6612
Citalopram	Citalopram-D6	7.237	93971	436103	0.2155	10.1057
Dextromethorphan	Dextromethorphan-D3	7.268	21150	114504	0.1847	9.3086
Diphenhydramine	Diphenhydramine-D3	7.291	141162	744047	0.1897	9.8951
Promethazine	Promethazine-D3	7.446	156472	837797	0.1868	10.1133

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Clonazepam	Clonazepam-D4	7.482	20121	25202	0.7984	10.9172
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.560	6274	31362	0.2000	9.6433
Carisoprodol	Carisoprodol-D7	7.592	45115	264300	0.1707	9.2454
Lorazepam	Clonazepam-D4	7.602	11016	25202	0.4371	12.1699
Alprazolam	Alprazolam-D5	7.626	40688	180208	0.2258	9.0627

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

Batch Data Path	D:\2018 Data\06062018 mdq\QuantResults\mdq p1a.batch.bin		
Analysis Time	6/6/2018 9:26 AM	**Analyst Name**	ISP Tox
Report Time	6/6/2018 9:28 AM	**Reporter Name**	ISP Tox
Last Calib Update	6/6/2018 9:26 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-06-05 16:36	**Data File**	a qc 100.d
Sample Type	QC	**Sample Name**	a qc 100
Dilution	1	**Acq Method**	Quant Panel 1a 10-17.m
Position	P2-B2	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28 Panel 1
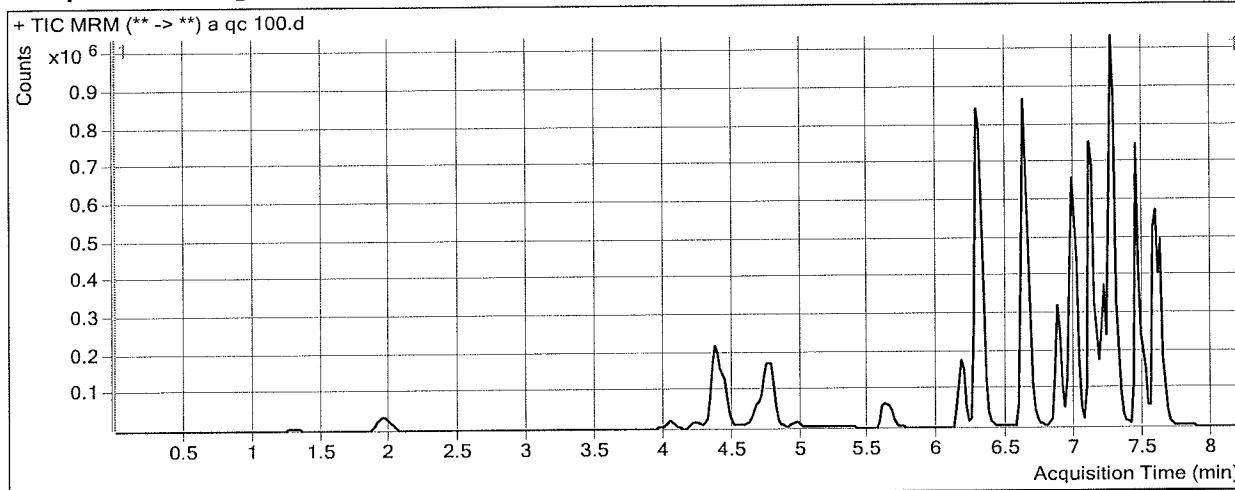
Sample Chromatogram

+ TIC MRM (** -> **) a qc 100.d

Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.308	24580	2233	11.0075	102.8898
Hydromorphone	Hydromorphone-D6	1.969	119636	37292	3.2081	111.3281
Codeine	Codeine-D6	4.056	51653	20749	2.4894	95.3715
Amphetamine	Amphetamine-D11	4.383	498469	65352	7.6275	98.8157
Oxycodone	Oxycodone-D6	4.429	308223	122985	2.5062	103.3211
Hydrocodone	Hydrocodone-D6	4.734	182673	100636	1.8152	112.7123
Norhydrocodone	Norhydrocodone-D3	4.779	13707	35254	0.3888	91.3105
Methamphetamine	Methamphetamine-D11	4.782	415973	154566	2.6912	99.0006
6-MAM	6-MAM-D6	4.968	8636	34441	0.2508	9.2589
Phentermine	Phentermine-D5	5.666	132052	200093	0.6600	104.9652
Dextrorphan	Dextrorphan-D3	6.163	170330	131685	1.2935	99.2498
7-aminoclonazepam	7-Aminoclonazepam-D4	6.272	301962	130329	2.3169	105.9939
Tramadol	Tramadol-13C-D3	6.302	1500018	762361	1.9676	101.1237
Doxylamine	Doxylamine-D5	6.621	1321076	704215	1.8760	94.4614
Bupropion	Bupropion-D9	6.869	548878	257146	2.1345	101.8402
Meprobamate	Meprobamate-D7	6.972	148304	96181	1.5419	92.2832
Venlafaxine	Venlafaxine-D6	7.105	1367384	633569	2.1582	99.9867
Trazodone	Trazodone-D6	7.195	566436	248867	2.2761	93.0086
Zolpidem	Zolpidem-D6	6.980	994890	502053	1.9816	99.2022
Citalopram	Citalopram-D6	7.237	716467	326691	2.1931	101.2225
Dextromethorphan	Dextromethorphan-D3	7.268	160395	75824	2.1154	98.8578
Diphenhydramine	Diphenhydramine-D3	7.291	1078025	569987	1.8913	96.7017
Promethazine	Promethazine-D3	7.446	935522	503215	1.8591	97.8798

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Clonazepam	Clonazepam-D4	7.502	242539	32732	7.4098	97.8328
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.560	73390	33355	2.2003	101.6975
Carisoprodol	Carisoprodol-D7	7.592	522403	285466	1.8300	97.3981
Lorazepam	Clonazepam-D4	7.602	92100	32732	2.8137	84.1472
Alprazolam	Alprazolam-D5	7.626	429554	170759	2.5156	98.2227

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

Batch Data Path	D:\2018 Data\06062018 mdq\QuantResults\mdq p1a.batch.bin		
Analysis Time	6/6/2018 9:26 AM	**Analyst Name**	ISP Tox
Report Time	6/6/2018 9:28 AM	**Reporter Name**	ISP Tox
Last Calib Update	6/6/2018 9:26 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-06-05 16:48	**Data File**	a QC 250.d
Sample Type	QC	**Sample Name**	a QC 250
Dilution	1	**Acq Method**	Quant Panel 1a 10-17.m
Position	P2-C2	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28 Panel 1
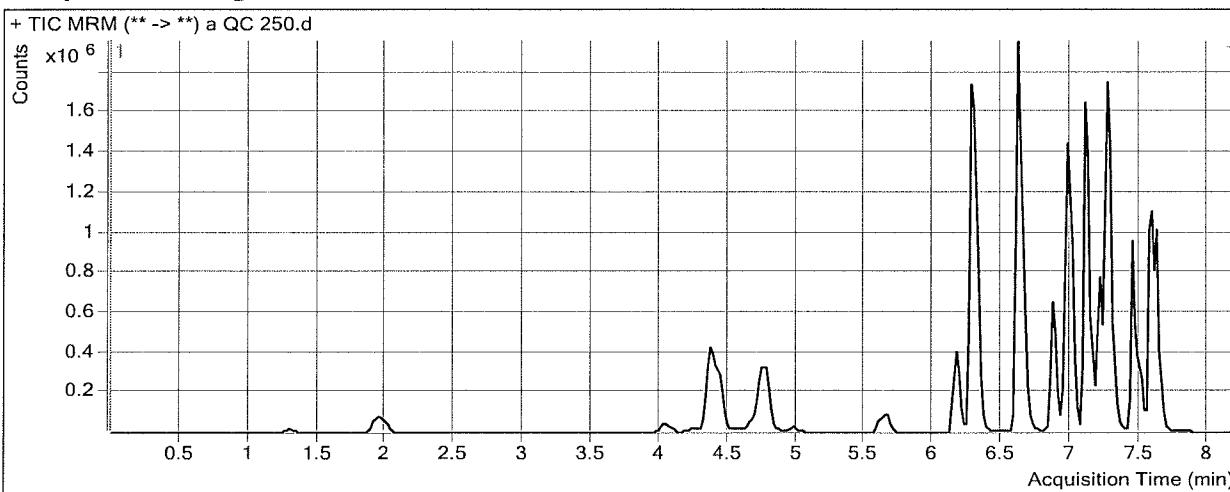
Sample Chromatogram

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

Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.308	61519	2088	29.4656	274.5181
Hydromorphone	Hydromorphone-D6	1.969	309140	40581	7.6179	263.9006
Codeine	Codeine-D6	4.056	127863	19295	6.6267	250.6038
Amphetamine	Amphetamine-D11	4.383	1097960	53817	20.4016	266.1569
Oxycodone	Oxycodone-D6	4.429	772138	119391	6.4673	266.0578
Hydrocodone	Hydrocodone-D6	4.734	432275	96547	4.4773	280.7266
Norhydrocodone	Norhydrocodone-D3	4.779	32641	29813	1.0949	252.9276
Methamphetamine	Methamphetamine-D11	4.782	768742	112771	6.8168	257.7299
6-MAM	6-MAM-D6	4.968	22819	34381	0.6637	24.2331
Phentermine	Phentermine-D5	5.666	295192	172959	1.7067	272.4323
Dextrorphan	Dextrorphan-D3	6.163	446302	130674	3.4154	261.4050
7-aminoclonazepam	7-Aminoclonazepam-D4	6.272	705517	124227	5.6792	261.2410
Tramadol	Tramadol-13C-D3	6.302	3810312	749090	5.0866	262.3463
Doxylamine	Doxylamine-D5	6.621	3441784	694494	4.9558	249.6998
Bupropion	Bupropion-D9	6.869	1206302	220855	5.4620	260.2325
Meprobamate	Meprobamate-D7	6.972	337309	82959	4.0660	242.5024
Venlafaxine	Venlafaxine-D6	7.105	3513254	626126	5.6111	260.3926
Trazodone	Trazodone-D6	7.195	1223343	201427	6.0734	247.0123
Zolpidem	Zolpidem-D6	6.980	2539766	526189	4.8267	242.1578
Citalopram	Citalopram-D6	7.237	1539980	280155	5.4969	253.4405
Dextromethorphan	Dextromethorphan-D3	7.268	311605	54027	5.7676	268.2599
Diphenhydramine	Diphenhydramine-D3	7.291	2169376	452740	4.7917	244.6627
Promethazine	Promethazine-D3	7.446	1476738	307273	4.8060	252.5365

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

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Clonazepam	Clonazepam-D4	7.482	508712	27381	18.5792	244.6698
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.560	160369	27691	5.7914	266.9680
Carisoprodol	Carisoprodol-D7	7.592	1162404	252591	4.6019	244.6599
Lorazepam	Clonazepam-D4	7.602	167540	27381	6.1189	184.2460
Alprazolam	Alprazolam-D5	7.626	1019089	158848	6.4155	250.0789

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\06062018 mdq\QuantResults\mdq p1a.batch.bin
Last Calib Update   6/6/2018 9:26 AM   **Analyst Name**   ISP TOX

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

Morphine - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 3 QCs

$y = 0.107547 * x - 0.058005$
$R^2 = 0.99985715$
Type:Linear, Origin:Ignore, Weight:1/x
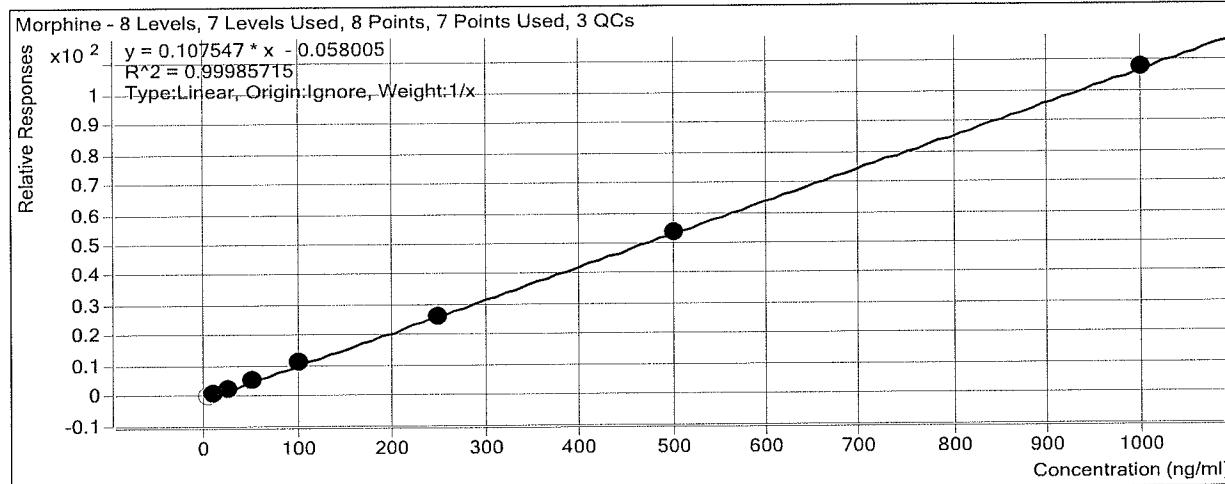
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☐	5	5.4	107.6
a cal 2-10ng	2	☑	10	10.0	99.7
a QC 10	2	☑	10	9.9	99.1
a cal 3-25ng	3	☑	25	25.7	102.9
a cal 4-50ng	4	☑	50	47.9	95.8
a cal 5-100ng	5	☑	100	102.7	102.7
a qc 100	5	☑	100	102.9	102.9
a cal 6-250ng	6	☑	250	246.4	98.5
a QC 250	6	☑	250	274.5	109.8
a cal 7-500ng	7	☑	500	501.2	100.2
a cal 8-1000ng	8	☑	1000	1001.2	100.1

ISP Forensics
Calibration Curve Report

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

Hydromorphone - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 3 QCs

$y = 0.028903 * x - 0.009564$
$R^2 = 0.99542805$
Type:Linear, Origin:Ignore, Weight:$1/x^2$
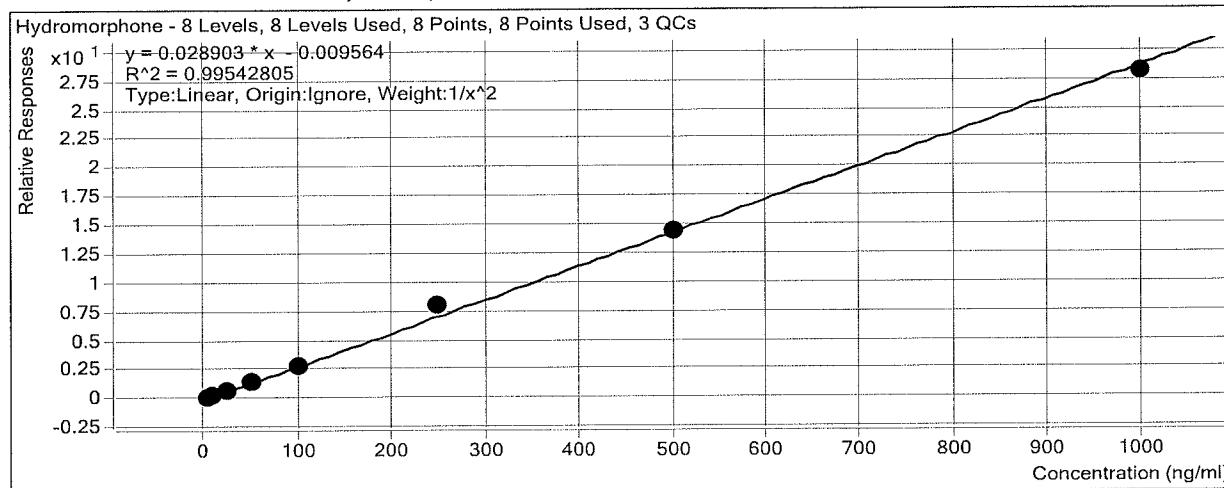
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☑	5	5.2	104.5
a cal 2-10ng	2	☑	10	9.3	92.8
a QC 10	2	☑	10	9.6	95.9
a cal 3-25ng	3	☑	25	23.5	94.2
a cal 4-50ng	4	☑	50	50.9	101.8
a cal 5-100ng	5	☑	100	98.3	98.3
a qc 100	5	☑	100	111.3	111.3
a cal 6-250ng	6	☑	250	277.8	111.1
a QC 250	6	☑	250	263.9	105.6
a cal 7-500ng	7	☑	500	500.0	100.0
a cal 8-1000ng	8	☑	1000	974.1	97.4

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\06062018 mdq\QuantResults\mdq p1a.batch.bin
Last Calib Update   6/6/2018 9:26 AM   **Analyst Name**   ISP TOX

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

Codeine - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 3 QCs

y = 0.026652 * x - 0.052450
R^2 = 0.99964432
Type:Linear, Origin:Ignore, Weight:1/x
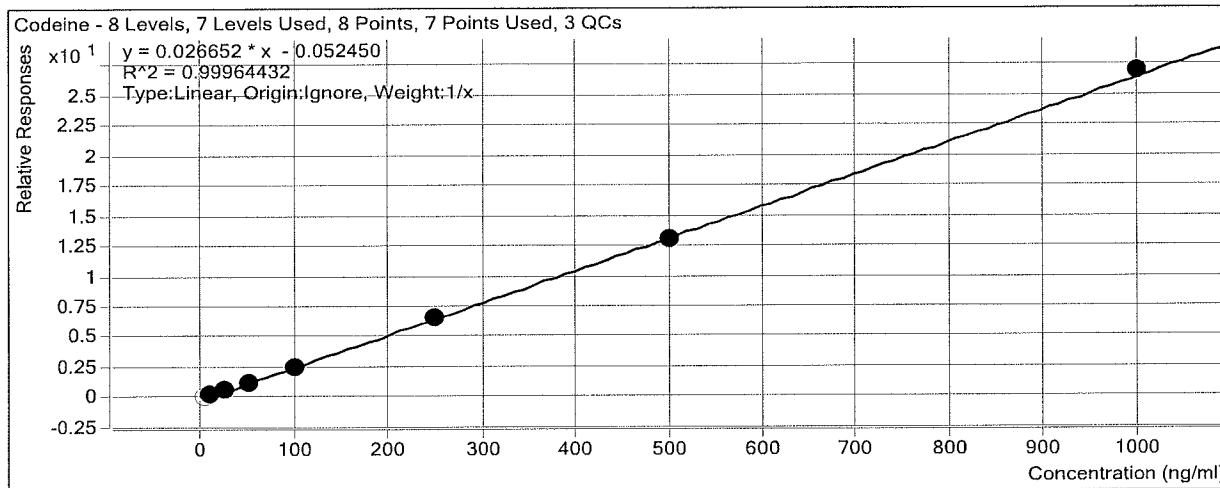
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☐	5	7.0	141.0
a cal 2-10ng	2	☑	10	11.2	111.8
a QC 10	2	☑	10	10.3	102.8
a cal 3-25ng	3	☑	25	23.7	95.0
a cal 4-50ng	4	☑	50	48.6	97.3
a cal 5-100ng	5	☑	100	96.9	96.9
a qc 100	5	☑	100	95.4	95.4
a cal 6-250ng	6	☑	250	247.2	98.9
a QC 250	6	☑	250	250.6	100.2
a cal 7-500ng	7	☑	500	494.6	98.9
a cal 8-1000ng	8	☑	1000	1012.8	101.3

ISP Forensics
Calibration Curve Report

Batch Data Path D:\2018 Data\06062018 mdq\QuantResults\mdq p1a.batch.bin
Last Calib Update 6/6/2018 9:26 AM   **Analyst Name**   ISP TOX

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

Amphetamine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 3 QCs

$y = 0.076335 * x + 0.084350$
$R^2 = 0.98952051$
Type:Linear, Origin:Ignore, Weight:1/x^2
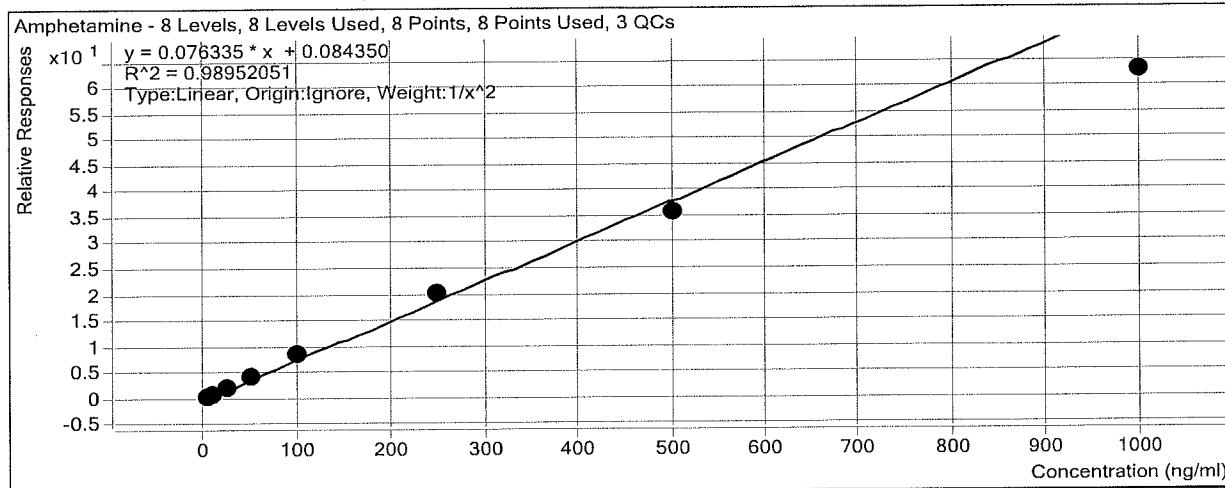
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☑	5	4.8	95.9
a cal 2-10ng	2	☑	10	10.4	104.4
a QC 10	2	☑	10	11.0	110.3
a cal 3-25ng	3	☑	25	26.4	105.4
a cal 4-50ng	4	☑	50	51.6	103.1
a cal 5-100ng	5	☑	100	110.4	110.4
a qc 100	5	☑	100	98.8	98.8
a cal 6-250ng	6	☑	250	261.9	104.8
a QC 250	6	☑	250	266.2	106.5
a cal 7-500ng	7	☑	500	467.6	93.5
a cal 8-1000ng	8	☑	1000	823.9	82.4

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\06062018 mdq\QuantResults\mdq p1a.batch.bin
Last Calib Update   6/6/2018 9:26 AM   **Analyst Name**   ISP TOX

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

Oxycodone - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 3 QCs

$y = 0.024341 * x - 0.008727$
$R^2 = 0.99948677$
Type:Linear, Origin:Ignore, Weight:1/x
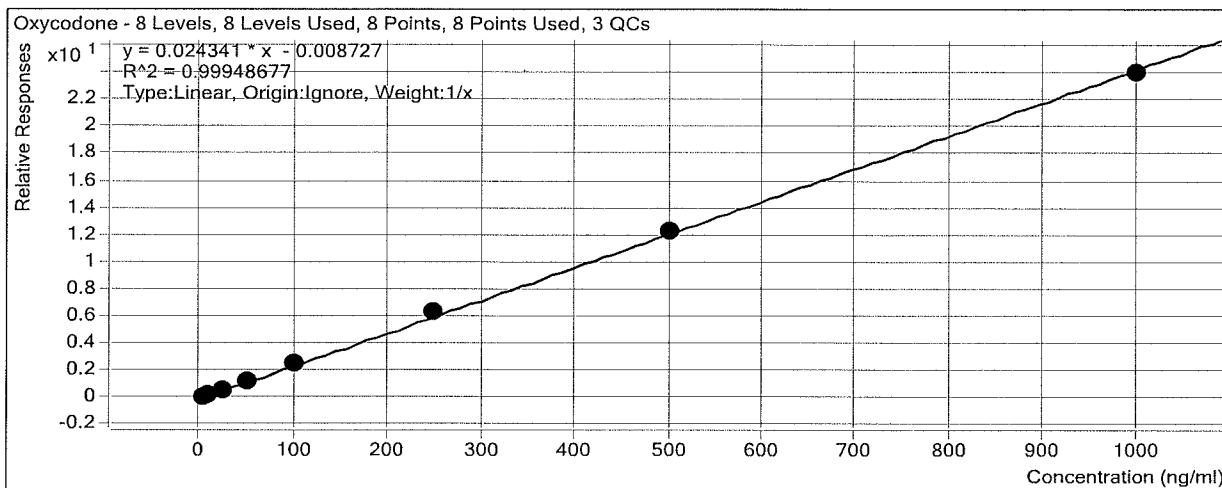
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☑	5	5.0	100.3
a cal 2-10ng	2	☑	10	9.7	97.4
a QC 10	2	☑	10	10.2	101.5
a cal 3-25ng	3	☑	25	23.8	95.4
a cal 4-50ng	4	☑	50	50.2	100.5
a cal 5-100ng	5	☑	100	103.0	103.0
a qc 100	5	☑	100	103.3	103.3
a cal 6-250ng	6	☑	250	261.2	104.5
a QC 250	6	☑	250	266.1	106.4
a cal 7-500ng	7	☑	500	502.3	100.5
a cal 8-1000ng	8	☑	1000	984.5	98.5

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\06062018 mdq\QuantResults\mdq p1a.batch.bin
Last Calib Update   6/6/2018 9:26 AM   **Analyst Name**   ISP TOX

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

Hydrocodone - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 3 QCs

$y = 0.015845 * x + 0.029306$
$R^2 = 0.99662071$
Type:Linear, Origin:Ignore, Weight:1/x
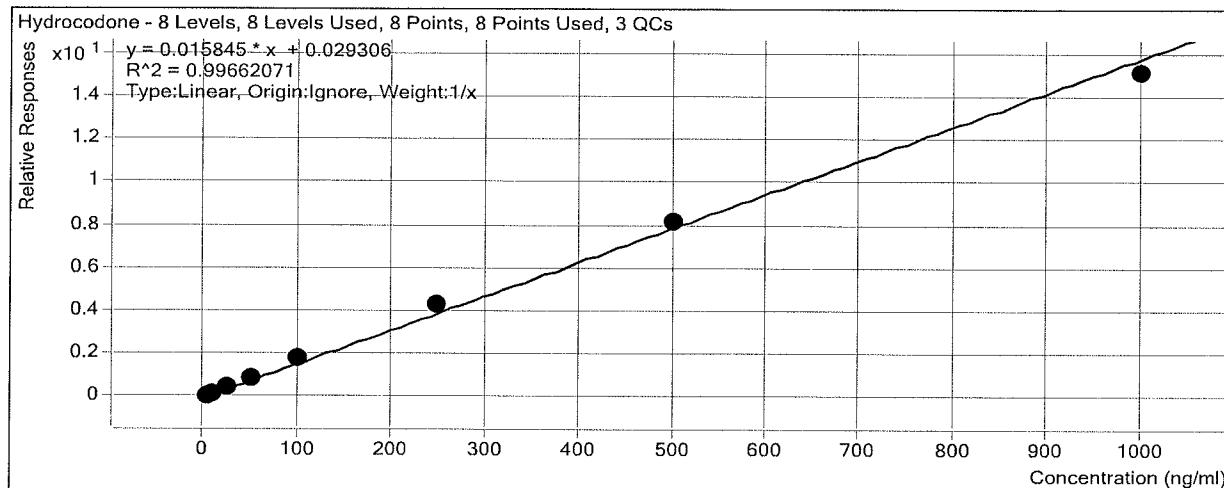
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☑	5	3.8	75.5
a cal 2-10ng	2	☑	10	9.4	93.7
a QC 10	2	☑	10	9.1	91.1
a cal 3-25ng	3	☑	25	26.7	106.8
a cal 4-50ng	4	☑	50	53.8	107.6
a cal 5-100ng	5	☑	100	111.0	111.0
a qc 100	5	☑	100	112.7	112.7
a cal 6-250ng	6	☑	250	267.9	107.2
a QC 250	6	☑	250	280.7	112.3
a cal 7-500ng	7	☑	500	515.3	103.1
a cal 8-1000ng	8	☑	1000	952.1	95.2

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\06062018 mdq\QuantResults\mdq p1a.batch.bin

Last Calib Update   6/6/2018 9:26 AM   **Analyst Name**   ISP TOX

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

Norhydrocodone - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 3 QCs

$y = 0.004369 * x - 0.010087$
$R^2 = 0.99902254$
Type:Linear, Origin:Ignore, Weight:1/x^2
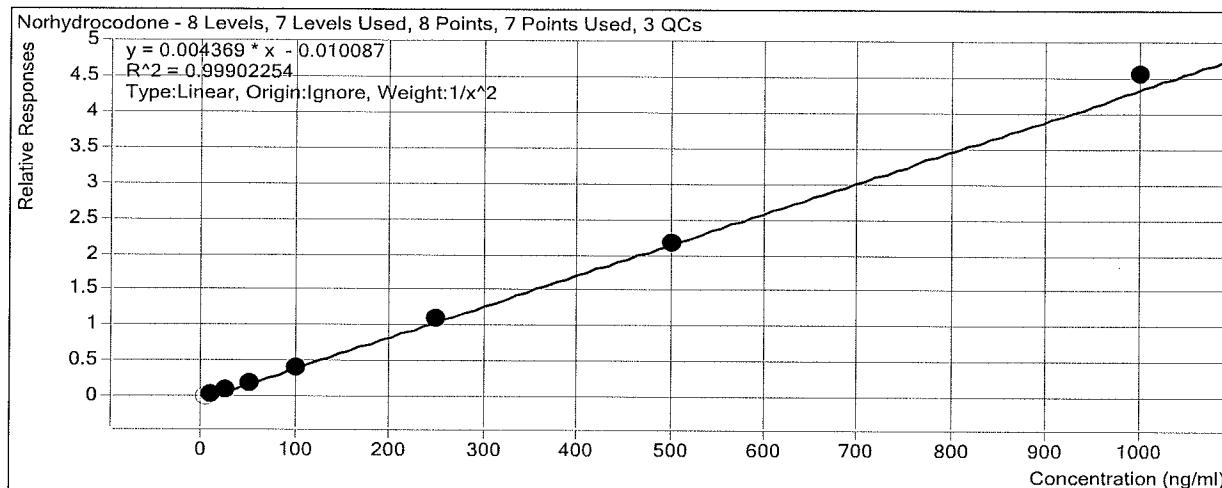
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☐	5	6.9	137.6
a cal 2-10ng	2	☑	10	10.2	101.5
a QC 10	2	☑	10	11.4	114.4
a cal 3-25ng	3	☑	25	24.5	98.0
a cal 4-50ng	4	☑	50	48.6	97.3
a cal 5-100ng	5	☑	100	97.1	97.1
a qc 100	5	☑	100	91.3	91.3
a cal 6-250ng	6	☑	250	252.9	101.2
a QC 250	6	☑	250	252.9	101.2
a cal 7-500ng	7	☑	500	502.5	100.5
a cal 8-1000ng	8	☑	1000	1044.1	104.4

ISP Forensics
Calibration Curve Report

Batch Data Path D:\2018 Data\06062018 mdq\QuantResults\mdq p1a.batch.bin
Last Calib Update 6/6/2018 9:26 AM   **Analyst Name**   ISP TOX

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

Methamphetamine - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 3 QCs

$y = 0.025991 * x + 0.118061$
$R^2 = 0.98964095$
Type:Linear, Origin:Ignore, Weight:$1/x^2$
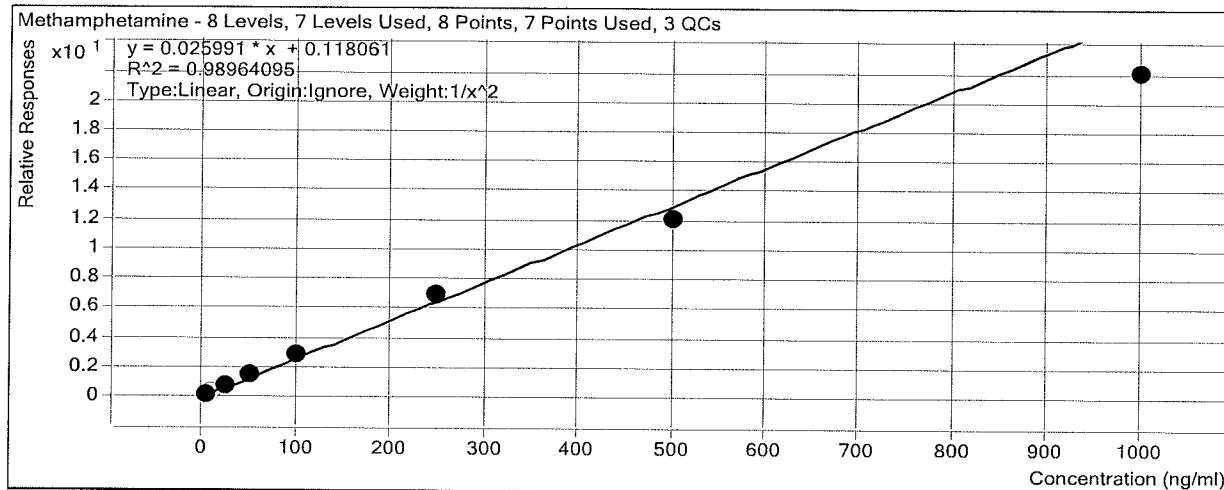
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☑	5	4.9	98.9
a cal 2-10ng	2	☐	10	7.3	72.5
a QC 10	2	☑	10	8.3	83.5
a cal 3-25ng	3	☑	25	24.5	97.9
a cal 4-50ng	4	☑	50	55.2	110.4
a cal 5-100ng	5	☑	100	109.5	109.5
a qc 100	5	☑	100	99.0	99.0
a cal 6-250ng	6	☑	250	265.6	106.2
a QC 250	6	☑	250	257.7	103.1
a cal 7-500ng	7	☑	500	464.2	92.8
a cal 8-1000ng	8	☑	1000	842.4	84.2

Dropped 10 ng calibrator top of peak cut off. A

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\06062018 mdq\QuantResults\mdq p1a.batch.bin

Last Calib Update   6/6/2018 9:26 AM   **Analyst Name**   ISP TOX

__Target Compound__   *6-MAM*

Internal Standard   *6-MAM-D6*

6-MAM - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 3 QCs

y = 0.027577 * x - 0.004569
R^2 = 0.99967633
Type:Linear, Origin:Ignore, Weight:1/x
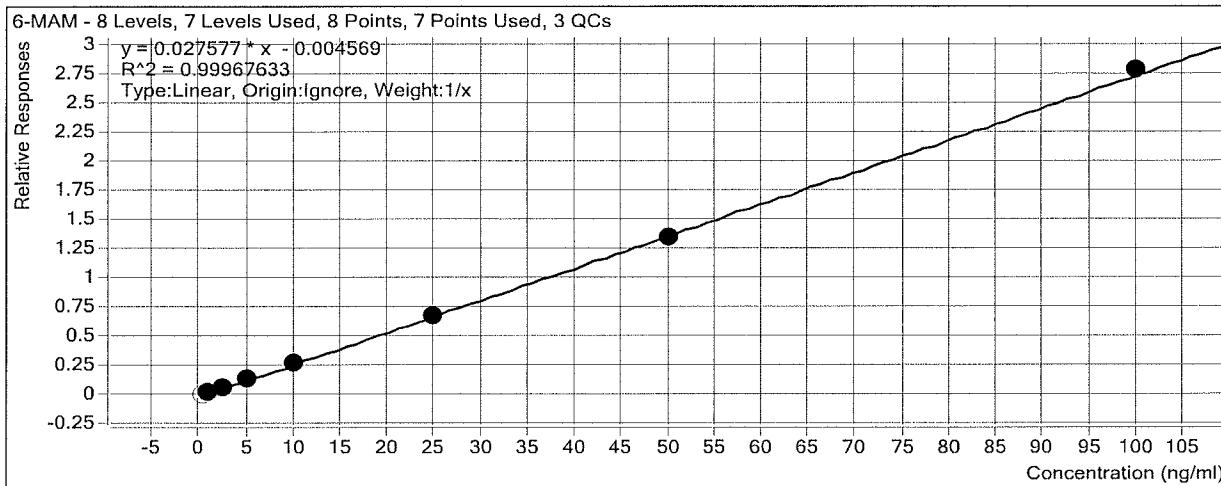
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☐	0.5	0.5	105.6
a cal 2-10ng	2	☑	1	1.1	108.4
a QC 10	2	☑	1	1.1	109.2
a cal 3-25ng	3	☑	2.5	2.3	93.0
a cal 4-50ng	4	☑	5	5.0	100.8
a cal 5-100ng	5	☑	10	9.9	99.3
a qc 100	5	☑	10	9.3	92.6
a cal 6-250ng	6	☑	25	24.8	99.0
a QC 250	6	☑	25	24.2	96.9
a cal 7-500ng	7	☑	50	49.1	98.2
a cal 8-1000ng	8	☑	100	101.2	101.2

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\06062018 mdq\QuantResults\mdq p1a.batch.bin
Last Calib Update   6/6/2018 9:26 AM   **Analyst Name**   ISP TOX

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

Phentermine - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 3 QCs

y = 0.006251 * x + 0.003864
R^2 = 0.99449395
Type:Linear, Origin:Ignore, Weight:1/x^2
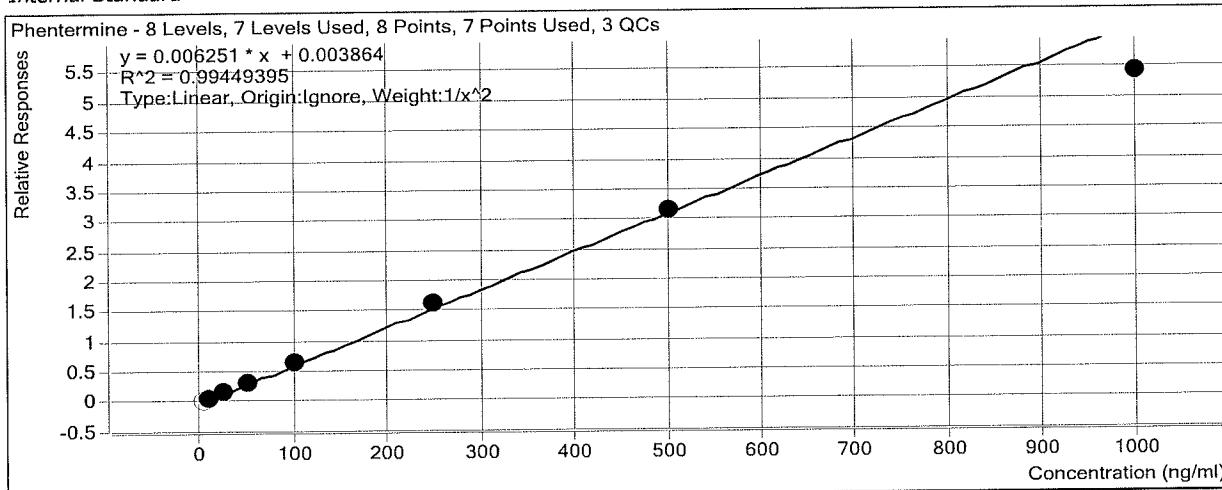
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☐	5	4.4	87.3
a cal 2-10ng	2	☑	10	9.7	97.1
a QC 10	2	☑	10	9.6	96.4
a cal 3-25ng	3	☑	25	26.1	104.4
a cal 4-50ng	4	☑	50	52.0	104.0
a cal 5-100ng	5	☑	100	102.6	102.6
a qc 100	5	☑	100	105.0	105.0
a cal 6-250ng	6	☑	250	260.4	104.2
a QC 250	6	☑	250	272.4	109.0
a cal 7-500ng	7	☑	500	504.9	101.0
a cal 8-1000ng	8	☑	1000	867.3	86.7

ISP Forensics
Calibration Curve Report

Batch Data Path	D:\2018 Data\06062018 mdq\QuantResults\mdq p1a.batch.bin	
Last Calib Update	6/6/2018 9:26 AM	**Analyst Name** ISP TOX

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

Dextrorphan - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 3 QCs

$y = 0.013086 * x - 0.005281$
$R^2 = 0.99938628$
Type:Linear, Origin:Ignore, Weight:1/x^2

Relative Responses — Concentration (ng/ml)
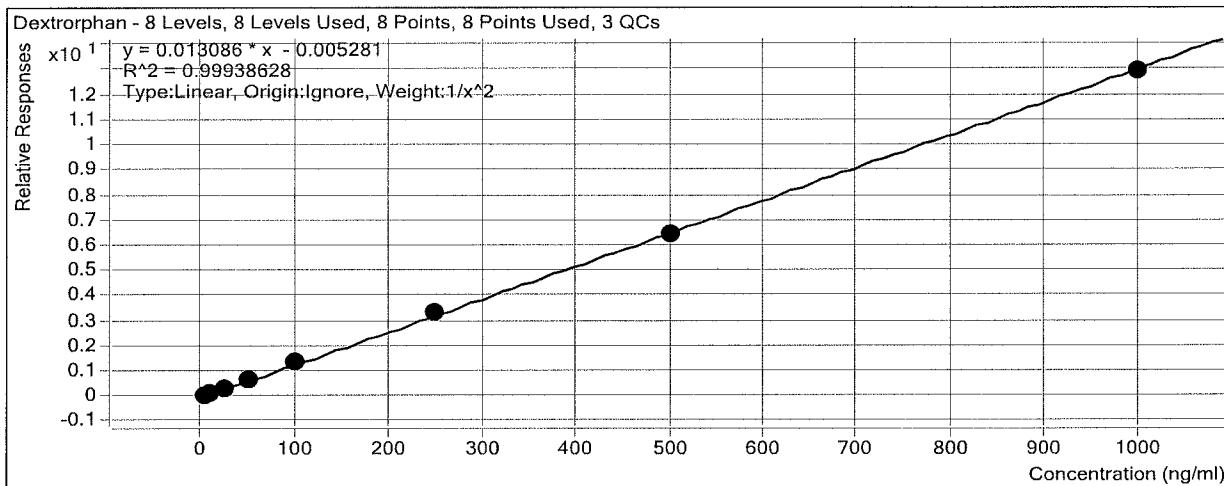
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☑	5	5.0	100.8
a cal 2-10ng	2	☑	10	9.9	98.7
a QC 10	2	☑	10	9.5	94.6
a cal 3-25ng	3	☑	25	24.7	98.9
a cal 4-50ng	4	☑	50	49.0	97.9
a cal 5-100ng	5	☑	100	103.7	103.7
a qc 100	5	☑	100	99.2	99.2
a cal 6-250ng	6	☑	250	256.7	102.7
a QC 250	6	☑	250	261.4	104.6
a cal 7-500ng	7	☑	500	492.6	98.5
a cal 8-1000ng	8	☑	1000	987.4	98.7

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\06062018 mdq\QuantResults\mdq p1a.batch.bin
Last Calib Update   6/6/2018 9:26 AM   **Analyst Name**   ISP TOX

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

7-aminoclonazepam - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 3 QCs

y = 0.021658 * x + 0.021305
R^2 = 0.99677583
Type:Linear, Origin:Ignore, Weight:1/x
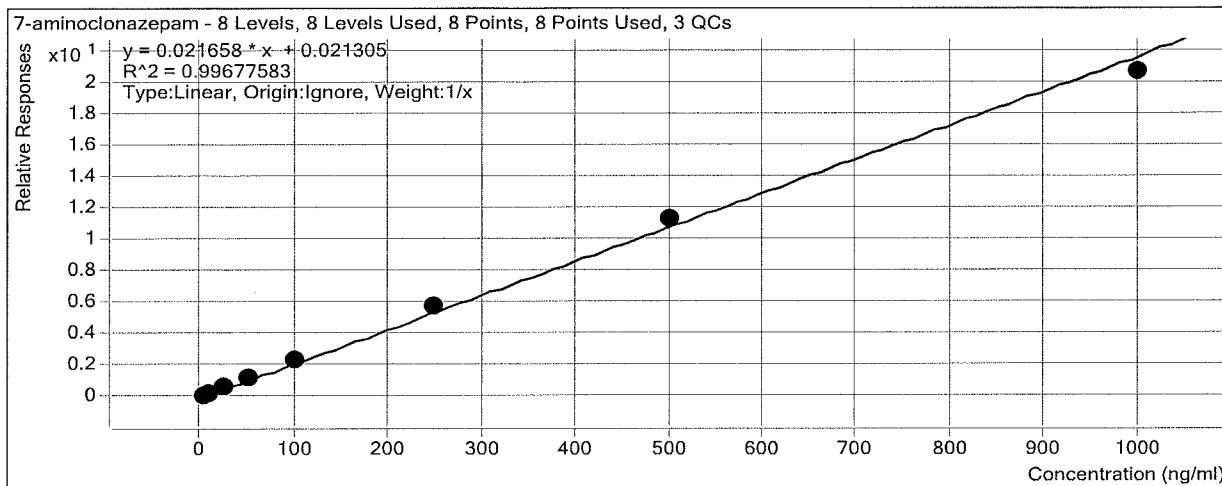
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☑	5	4.1	82.5
a cal 2-10ng	2	☑	10	9.3	92.9
a QC 10	2	☑	10	9.5	95.0
a cal 3-25ng	3	☑	25	25.5	102.1
a cal 4-50ng	4	☑	50	53.7	107.5
a cal 5-100ng	5	☑	100	109.3	109.3
a qc 100	5	☑	100	106.0	106.0
a cal 6-250ng	6	☑	250	266.3	106.5
a QC 250	6	☑	250	261.2	104.5
a cal 7-500ng	7	☑	500	520.9	104.2
a cal 8-1000ng	8	☑	1000	950.8	95.1

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\06062018 mdq\QuantResults\mdq p1a.batch.bin
Last Calib Update   6/6/2018 9:26 AM   **Analyst Name**   ISP TOX

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

Tramadol - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 3 QCs

$y = 0.019346 * x + 0.011267$
$R^2 = 0.99992714$
Type:Linear, Origin:Ignore, Weight:1/x
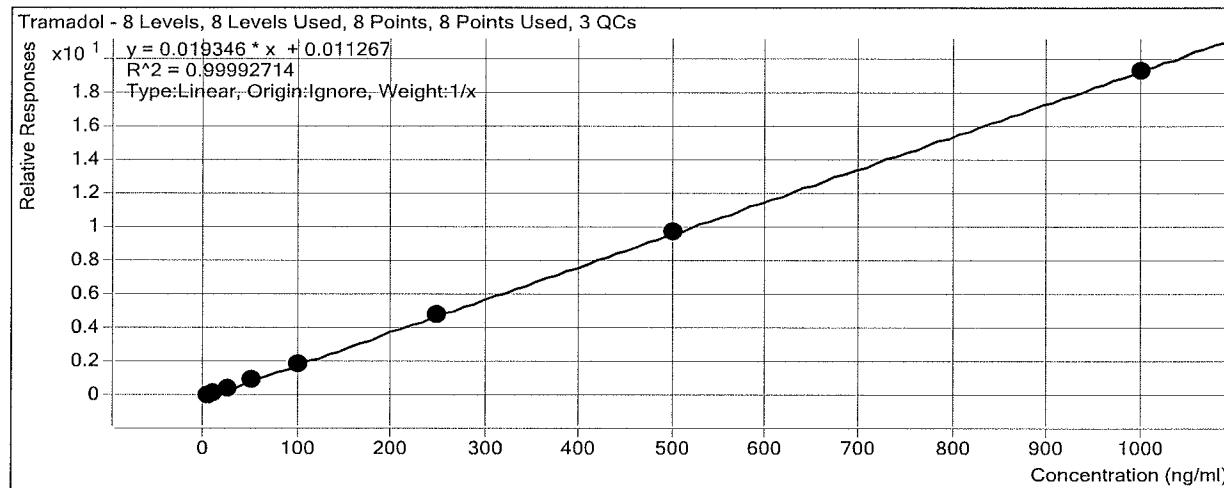
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☑	5	4.8	95.4
a cal 2-10ng	2	☑	10	9.9	98.8
a QC 10	2	☑	10	10.0	100.4
a cal 3-25ng	3	☑	25	25.7	102.6
a cal 4-50ng	4	☑	50	50.8	101.7
a cal 5-100ng	5	☑	100	101.0	101.0
a qc 100	5	☑	100	101.1	101.1
a cal 6-250ng	6	☑	250	251.2	100.5
a QC 250	6	☑	250	262.3	104.9
a cal 7-500ng	7	☑	500	503.4	100.7
a cal 8-1000ng	8	☑	1000	993.2	99.3

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\06062018 mdq\QuantResults\mdq p1a.batch.bin
Last Calib Update   6/6/2018 9:26 AM   **Analyst Name**   ISP TOX

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

Doxylamine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 3 QCs

$y = 0.019840 * x + 0.001885$
$R^2 = 0.99795736$
Type:Linear, Origin:Ignore, Weight:1/x^2
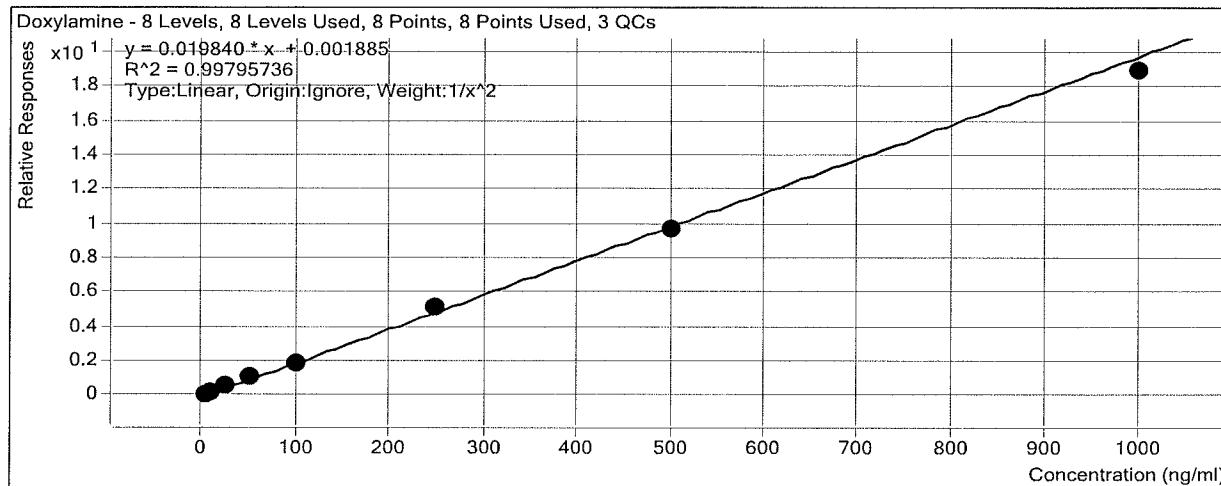
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☑	5	5.0	100.9
a cal 2-10ng	2	☑	10	9.6	96.3
a QC 10	2	☑	10	9.4	94.3
a cal 3-25ng	3	☑	25	25.6	102.5
a cal 4-50ng	4	☑	50	52.8	105.7
a cal 5-100ng	5	☑	100	97.2	97.2
a qc 100	5	☑	100	94.5	94.5
a cal 6-250ng	6	☑	250	261.0	104.4
a QC 250	6	☑	250	249.7	99.9
a cal 7-500ng	7	☑	500	489.6	97.9
a cal 8-1000ng	8	☑	1000	951.9	95.2

ISP Forensics
Calibration Curve Report

__Target Compound__   *Bupropion*

Internal Standard   *Bupropion-D9*

Bupropion - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 3 QCs

$y = 0.021008 * x - 0.004932$

$R^2 = 0.99831819$

Type:Linear, Origin:Ignore, Weight:$1/x^2$
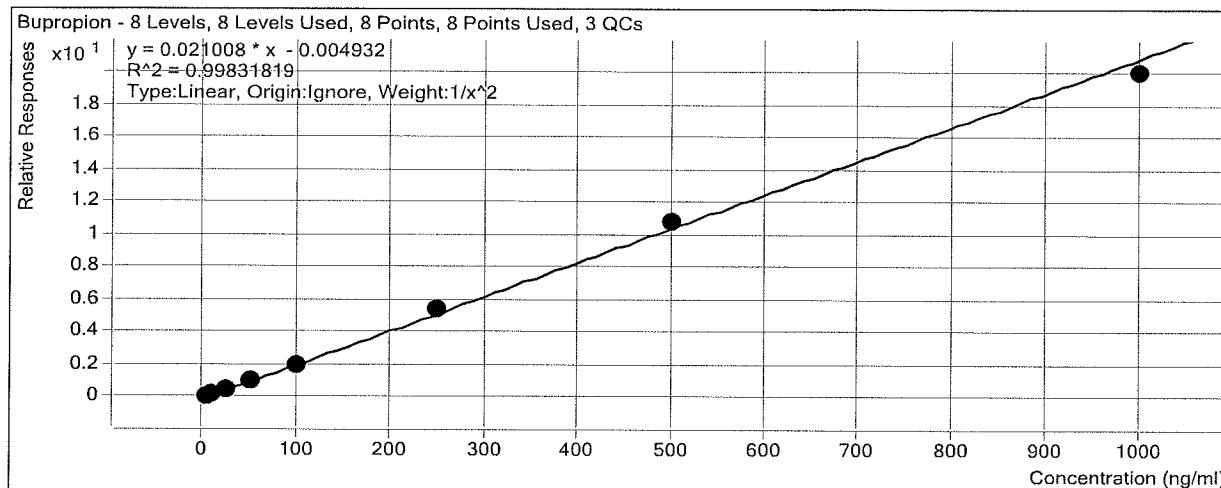
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☑	5	5.1	101.2
a cal 2-10ng	2	☑	10	9.7	97.0
a QC 10	2	☑	10	9.7	96.5
a cal 3-25ng	3	☑	25	25.3	101.0
a cal 4-50ng	4	☑	50	51.1	102.3
a cal 5-100ng	5	☑	100	95.5	95.5
a qc 100	5	☑	100	101.8	101.8
a cal 6-250ng	6	☑	250	260.3	104.1
a QC 250	6	☑	250	260.2	104.1
a cal 7-500ng	7	☑	500	518.0	103.6
a cal 8-1000ng	8	☑	1000	952.5	95.2

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\06062018 mdq\QuantResults\mdq p1a.batch.bin
Last Calib Update   6/6/2018 9:26 AM   **Analyst Name**   ISP TOX

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

Meprobamate - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 3 QCs

$y = 0.016802 * x - 0.008641$
$R^2 = 0.99823985$
Type:Linear, Origin:Ignore, Weight:1/x^2
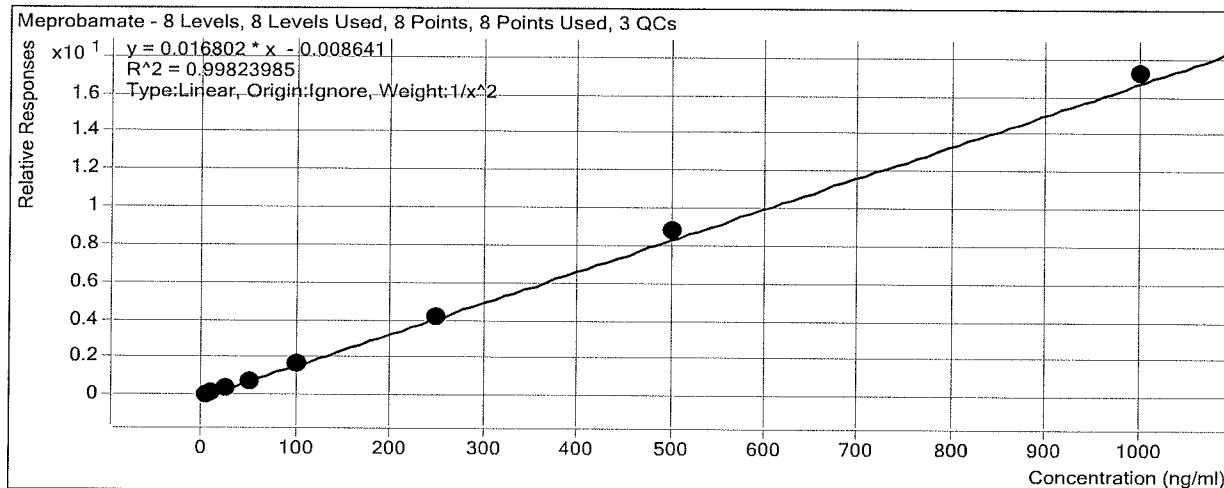
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☑	5	5.1	102.7
a cal 2-10ng	2	☑	10	9.6	95.9
a QC 10	2	☑	10	10.3	102.7
a cal 3-25ng	3	☑	25	24.8	99.3
a cal 4-50ng	4	☑	50	47.3	94.7
a cal 5-100ng	5	☑	100	100.2	100.2
a qc 100	5	☑	100	92.3	92.3
a cal 6-250ng	6	☑	250	247.6	99.0
a QC 250	6	☑	250	242.5	97.0
a cal 7-500ng	7	☑	500	528.5	105.7
a cal 8-1000ng	8	☑	1000	1025.3	102.5

ISP Forensics
Calibration Curve Report

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

Venlafaxine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 3 QCs

$y = 0.021526 * x + 0.005924$
$R^2 = 0.99983342$
Type:Linear, Origin:Ignore, Weight:1/x
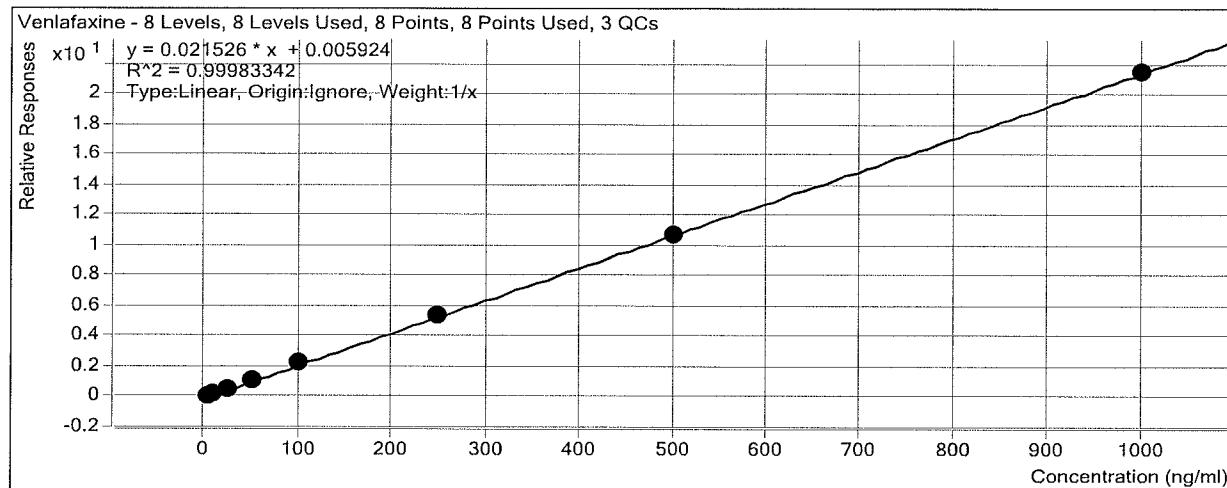
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☑	5	4.6	92.2
a cal 2-10ng	2	☑	10	9.9	98.5
a QC 10	2	☑	10	9.8	98.5
a cal 3-25ng	3	☑	25	25.7	102.9
a cal 4-50ng	4	☑	50	51.9	103.8
a cal 5-100ng	5	☑	100	103.0	103.0
a qc 100	5	☑	100	100.0	100.0
a cal 6-250ng	6	☑	250	252.2	100.9
a QC 250	6	☑	250	260.4	104.2
a cal 7-500ng	7	☑	500	494.7	98.9
a cal 8-1000ng	8	☑	1000	998.0	99.8

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\06062018 mdq\QuantResults\mdq p1a.batch.bin
Last Calib Update   6/6/2018 9:26 AM   **Analyst Name**   ISP TOX

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

Trazodone - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 3 QCs

$y = 0.024657 * x - 0.017275$
$R^2 = 0.99858719$
Type:Linear, Origin:Ignore, Weight:$1/x^2$
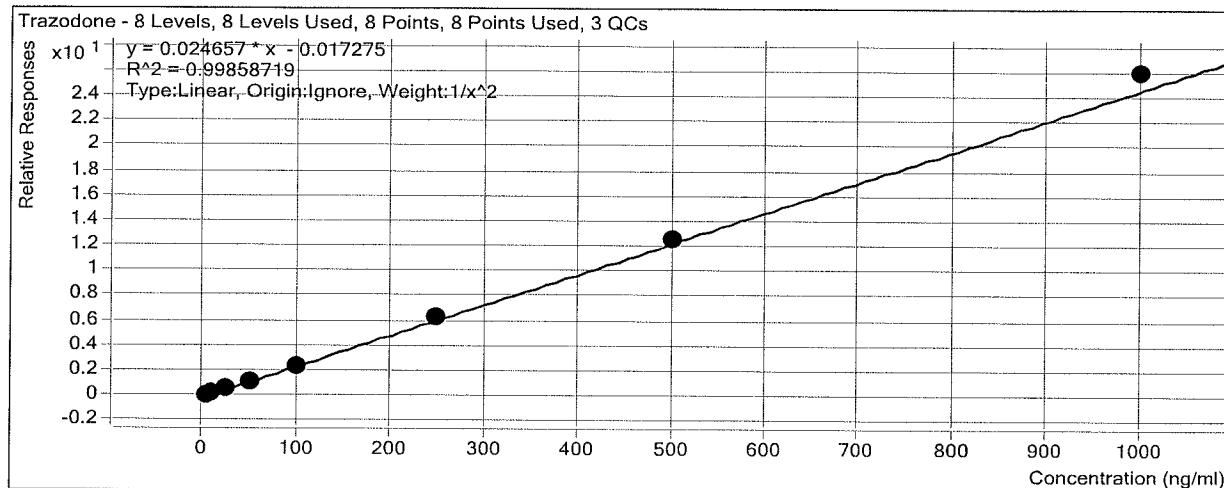
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☑	5	5.1	102.2
a cal 2-10ng	2	☑	10	9.7	97.2
a QC 10	2	☑	10	9.6	95.6
a cal 3-25ng	3	☑	25	24.5	98.1
a cal 4-50ng	4	☑	50	48.0	95.9
a cal 5-100ng	5	☑	100	97.3	97.3
a qc 100	5	☑	100	93.0	93.0
a cal 6-250ng	6	☑	250	254.8	101.9
a QC 250	6	☑	250	247.0	98.8
a cal 7-500ng	7	☑	500	511.4	102.3
a cal 8-1000ng	8	☑	1000	1050.3	105.0

ISP Forensics
Calibration Curve Report

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

Zolpidem - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 3 QCs

$y = 0.019902 * x + 0.007338$
$R^2 = 0.99973449$
Type:Linear, Origin:Ignore, Weight:1/x
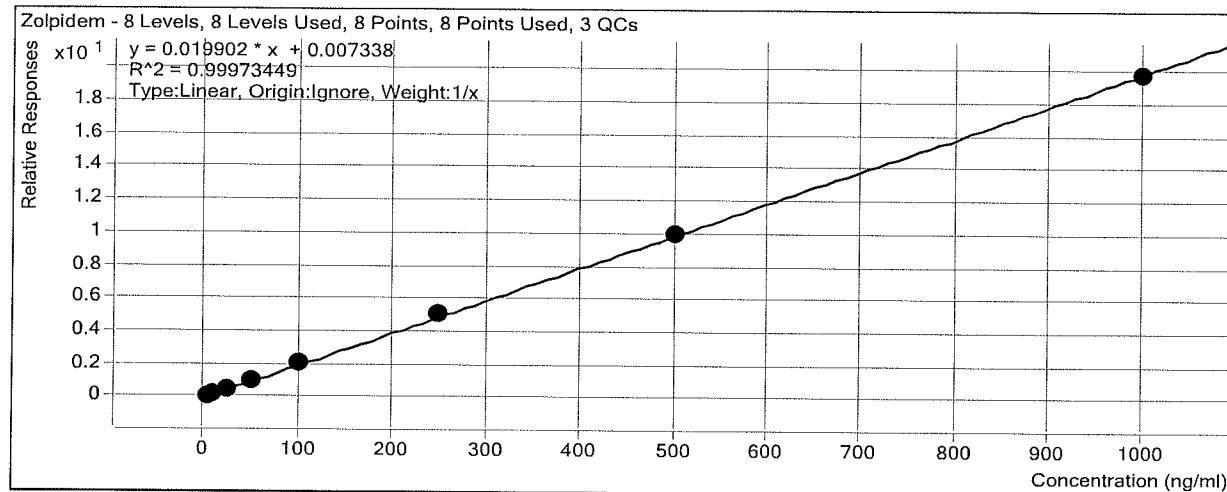
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☑	5	4.6	92.4
a cal 2-10ng	2	☑	10	9.8	98.2
a QC 10	2	☑	10	9.7	96.6
a cal 3-25ng	3	☑	25	25.3	101.1
a cal 4-50ng	4	☑	50	51.5	103.0
a cal 5-100ng	5	☑	100	104.7	104.7
a qc 100	5	☑	100	99.2	99.2
a cal 6-250ng	6	☑	250	254.3	101.7
a QC 250	6	☑	250	242.2	96.9
a cal 7-500ng	7	☑	500	499.0	99.8
a cal 8-1000ng	8	☑	1000	990.7	99.1

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\06062018 mdq\QuantResults\mdq p1a.batch.bin

Last Calib Update   6/6/2018 9:26 AM   **Analyst Name**   ISP TOX

Target Compound   *Citalopram*

Internal Standard   *Citalopram-D6*

Citalopram - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 3 QCs

$y = 0.021704 * x - 0.003857$

$R^2 = 0.99931344$

Type:Linear, Origin:Ignore, Weight:1/x^2
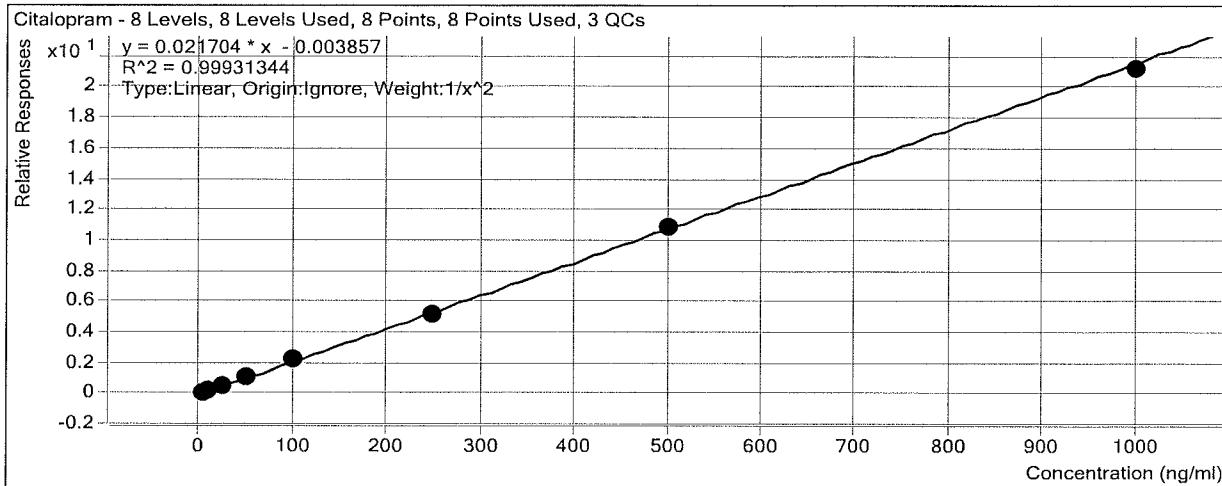
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☑	5	5.0	99.5
a cal 2-10ng	2	☑	10	10.0	100.1
a QC 10	2	☑	10	10.1	101.1
a cal 3-25ng	3	☑	25	25.1	100.6
a cal 4-50ng	4	☑	50	50.8	101.6
a cal 5-100ng	5	☑	100	103.7	103.7
a qc 100	5	☑	100	101.2	101.2
a cal 6-250ng	6	☑	250	240.9	96.4
a QC 250	6	☑	250	253.4	101.4
a cal 7-500ng	7	☑	500	502.4	100.5
a cal 8-1000ng	8	☑	1000	975.8	97.6

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\06062018 mdq\QuantResults\mdq p1a.batch.bin
Last Calib Update   6/6/2018 9:26 AM   **Analyst Name**   ISP TOX

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

Dextromethorphan - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 3 QCs

$y = 0.021560 * x - 0.015976$
$R^2 = 0.99979742$
Type:Linear, Origin:Ignore, Weight:1/x
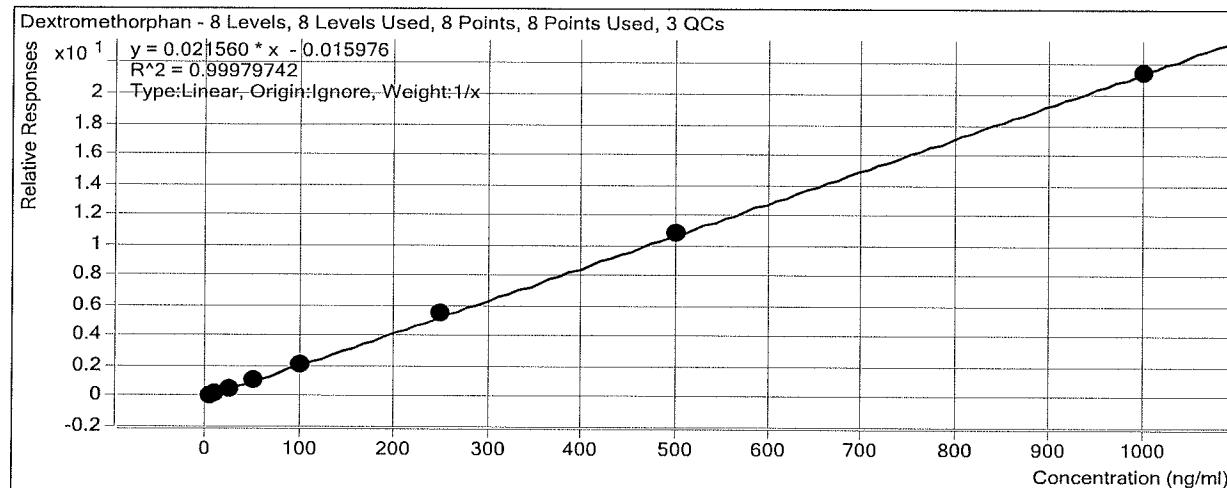
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☑	5	5.5	110.1
a cal 2-10ng	2	☑	10	9.6	95.7
a QC 10	2	☑	10	9.3	93.1
a cal 3-25ng	3	☑	25	24.4	97.7
a cal 4-50ng	4	☑	50	47.7	95.4
a cal 5-100ng	5	☑	100	99.1	99.1
a qc 100	5	☑	100	98.9	98.9
a cal 6-250ng	6	☑	250	253.5	101.4
a QC 250	6	☑	250	268.3	107.3
a cal 7-500ng	7	☑	500	506.2	101.2
a cal 8-1000ng	8	☑	1000	994.1	99.4

ISP Forensics
Calibration Curve Report

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

Diphenhydramine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 3 QCs

$y = 0.019602 * x - 0.004243$
$R^2 = 0.99953988$
Type:Linear, Origin:Ignore, Weight:1/x^2

Relative Responses — ×10^1

Concentration (ng/ml)
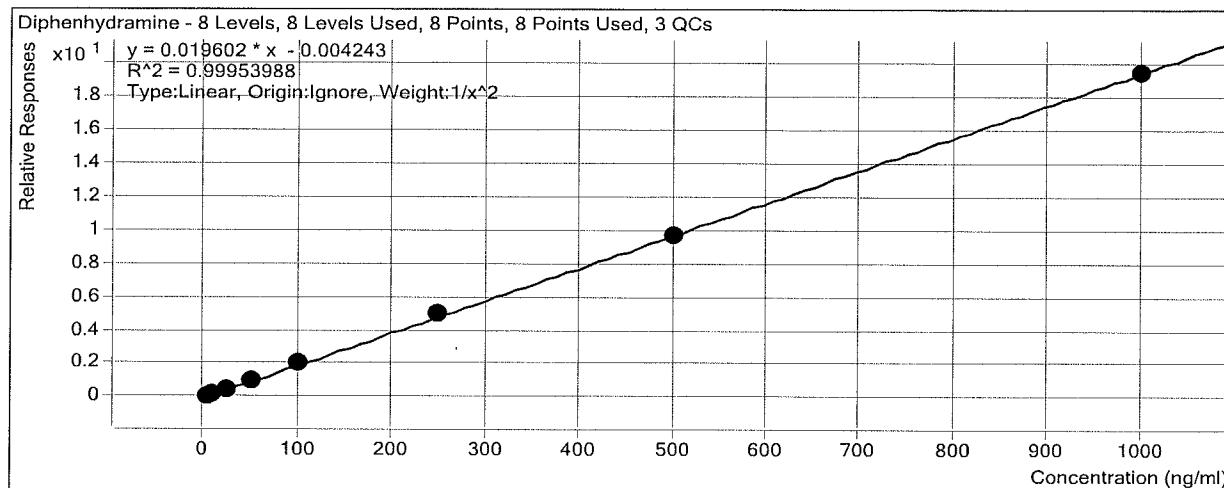
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☑	5	5.0	101.0
a cal 2-10ng	2	☑	10	9.8	98.3
a QC 10	2	☑	10	9.9	99.0
a cal 3-25ng	3	☑	25	24.8	99.1
a cal 4-50ng	4	☑	50	49.4	98.8
a cal 5-100ng	5	☑	100	103.8	103.8
a qc 100	5	☑	100	96.7	96.7
a cal 6-250ng	6	☑	250	252.7	101.1
a QC 250	6	☑	250	244.7	97.9
a cal 7-500ng	7	☑	500	493.3	98.7
a cal 8-1000ng	8	☑	1000	993.5	99.3

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\06062018 mdq\QuantResults\mdq p1a.batch.bin

Last Calib Update   6/6/2018 9:26 AM   **Analyst Name**   ISP TOX

Target Compound   *Promethazine*

Internal Standard   *Promethazine-D3*

Promethazine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 3 QCs

$y = 0.019054 * x - 0.005936$

$R^2 = 0.99888482$

Type:Linear, Origin:Ignore, Weight:$1/x^2$
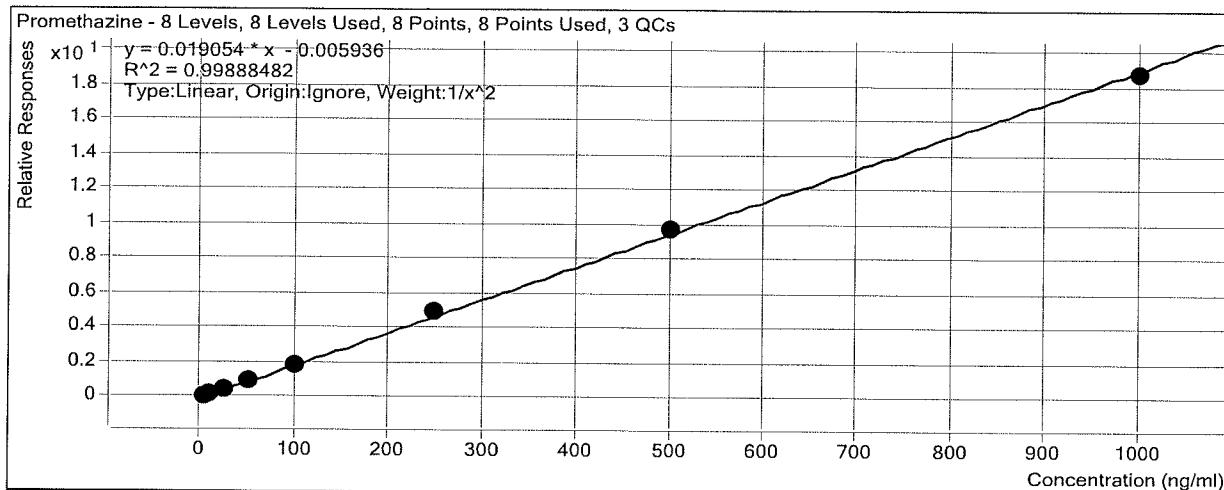
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☑	5	4.9	98.8
a cal 2-10ng	2	☑	10	10.2	102.4
a QC 10	2	☑	10	10.1	101.1
a cal 3-25ng	3	☑	25	25.7	102.6
a cal 4-50ng	4	☑	50	47.9	95.8
a cal 5-100ng	5	☑	100	97.0	97.0
a qc 100	5	☑	100	97.9	97.9
a cal 6-250ng	6	☑	250	256.8	102.7
a QC 250	6	☑	250	252.5	101.0
a cal 7-500ng	7	☑	500	513.3	102.7
a cal 8-1000ng	8	☑	1000	981.3	98.1

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\06062018 mdq\QuantResults\mdq p1a.batch.bin

Last Calib Update   6/6/2018 9:26 AM   **Analyst Name**   ISP TOX

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

Clonazepam - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 3 QCs

$y = 0.076067 * x - 0.032057$
$R^2 = 0.99616943$
Type:Linear, Origin:Ignore, Weight:1/x^2
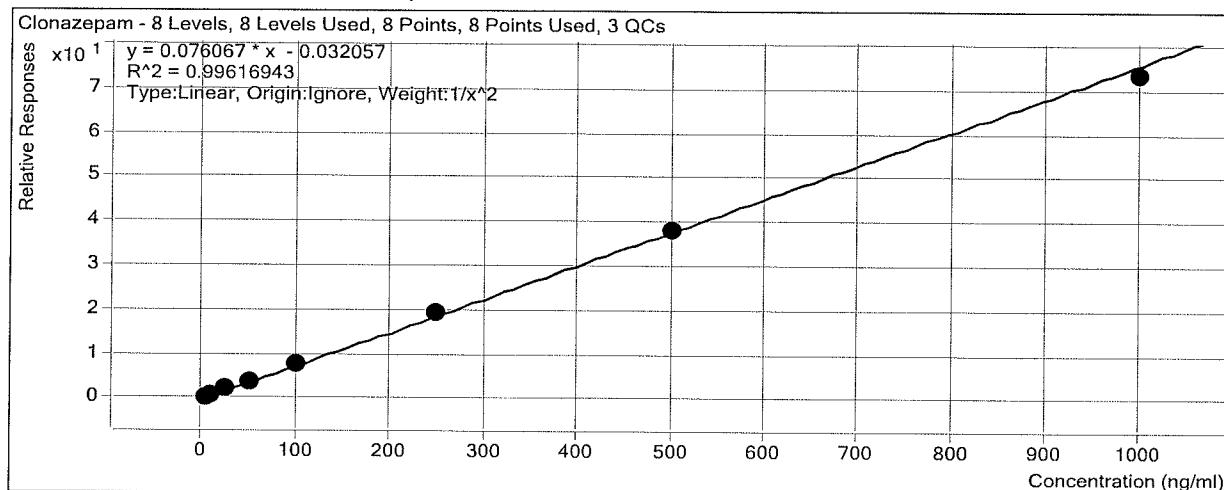
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☑	5	5.1	102.3
a cal 2-10ng	2	☑	10	9.2	92.1
a QC 10	2	☑	10	10.9	109.2
a cal 3-25ng	3	☑	25	27.5	109.9
a cal 4-50ng	4	☑	50	47.9	95.9
a cal 5-100ng	5	☑	100	101.1	101.1
a qc 100	5	☑	100	97.8	97.8
a cal 6-250ng	6	☑	250	256.2	102.5
a QC 250	6	☑	250	244.7	97.9
a cal 7-500ng	7	☑	500	499.5	99.9
a cal 8-1000ng	8	☑	1000	963.0	96.3

Batch Data Path   D:\2018 Data\06062018 mdq\QuantResults\mdq p1a.batch.bin
Last Calib Update   6/6/2018 9:26 AM   **Analyst Name**   ISP TOX

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

a-hydroxyalprazolam - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 3 QCs

$y = 0.021729 * x - 0.009488$
$R^2 = 0.99919315$
Type:Linear, Origin:Ignore, Weight:1/x
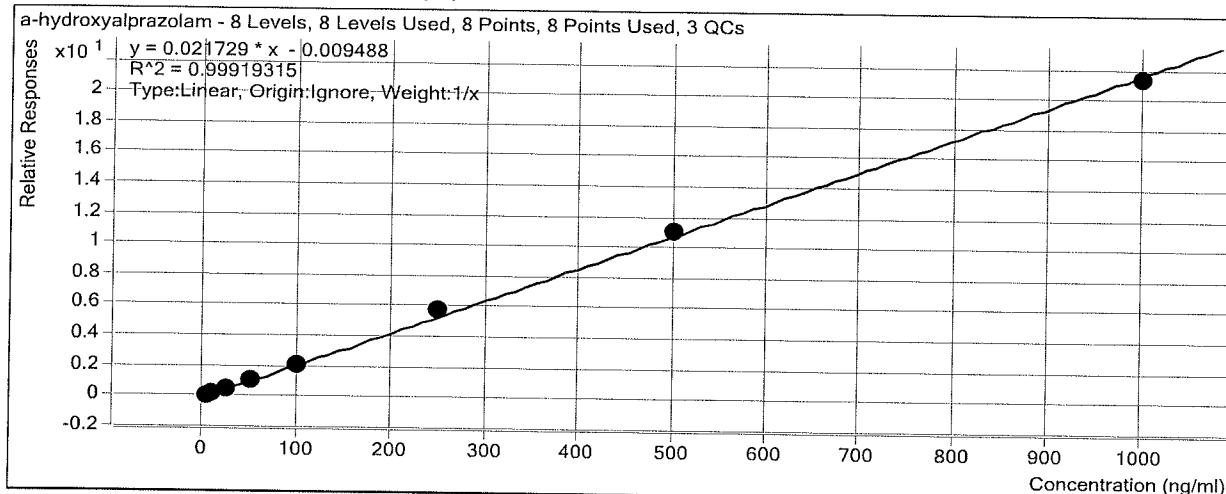
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☑	5	5.0	100.8
a cal 2-10ng	2	☑	10	10.0	100.1
a QC 10	2	☑	10	9.6	96.4
a cal 3-25ng	3	☑	25	24.7	98.6
a cal 4-50ng	4	☑	50	47.5	95.1
a cal 5-100ng	5	☑	100	100.1	100.1
a qc 100	5	☑	100	101.7	101.7
a cal 6-250ng	6	☑	250	264.2	105.7
a QC 250	6	☑	250	267.0	106.8
a cal 7-500ng	7	☑	500	507.9	101.6
a cal 8-1000ng	8	☑	1000	980.6	98.1

ISP Forensics
Calibration Curve Report

Target Compound   *Carisoprodol*
Internal Standard   *Carisoprodol-D7*

Carisoprodol - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 3 QCs

$y = 0.018823 * x - 0.003330$
$R^2 = 0.99762838$
Type:Linear, Origin:Ignore, Weight:$1/x^2$
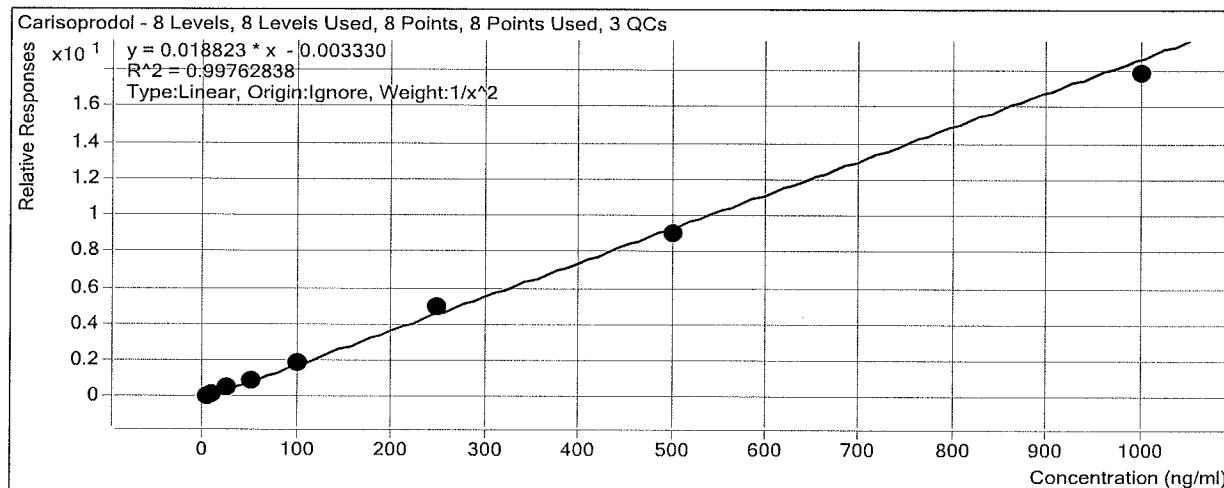
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☑	5	4.9	97.2
a cal 2-10ng	2	☑	10	10.4	104.5
a QC 10	2	☑	10	9.2	92.5
a cal 3-25ng	3	☑	25	25.7	102.9
a cal 4-50ng	4	☑	50	50.1	100.1
a cal 5-100ng	5	☑	100	98.7	98.7
a qc 100	5	☑	100	97.4	97.4
a cal 6-250ng	6	☑	250	265.9	106.3
a QC 250	6	☑	250	244.7	97.9
a cal 7-500ng	7	☑	500	477.1	95.4
a cal 8-1000ng	8	☑	1000	949.0	94.9

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\06062018 mdq\QuantResults\mdq p1a.batch.bin
Last Calib Update   6/6/2018 9:26 AM   **Analyst Name**   ISP TOX

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

Lorazepam - 8 Levels, 6 Levels Used, 8 Points, 6 Points Used, 3 QCs

$y = 0.033019 * x + 0.035280$
$R^2 = 0.98447862$
Type:Linear, Origin:Ignore, Weight:1/x^2
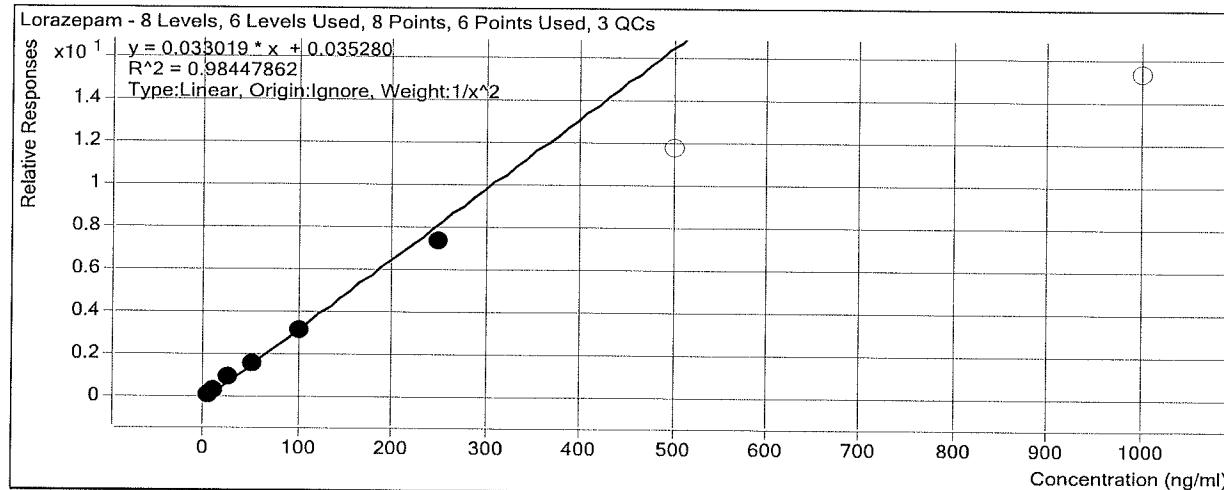
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☑	5	4.8	96.5
a cal 2-10ng	2	☑	10	10.0	100.3
a QC 10	2	☑	10	12.2	121.7
a cal 3-25ng	3	☑	25	29.9	119.5
a cal 4-50ng	4	☑	50	49.4	98.7
a cal 5-100ng	5	☑	100	95.4	95.4
a qc 100	5	☑	100	84.1	84.1
a cal 6-250ng	6	☑	250	224.0	89.6
a QC 250	6	☑	250	184.2	73.7
a cal 7-500ng	7	☐	500	356.4	71.3
a cal 8-1000ng	8	☐	1000	462.4	46.2

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2018 Data\06062018 mdq\QuantResults\mdq p1a.batch.bin

Last Calib Update   6/6/2018 9:26 AM   **Analyst Name**   ISP TOX

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

Alprazolam - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 3 QCs

$y = 0.025682 * x - 0.006964$

$R^2 = 0.99971608$

Type:Linear, Origin:Ignore, Weight:$1/x^2$
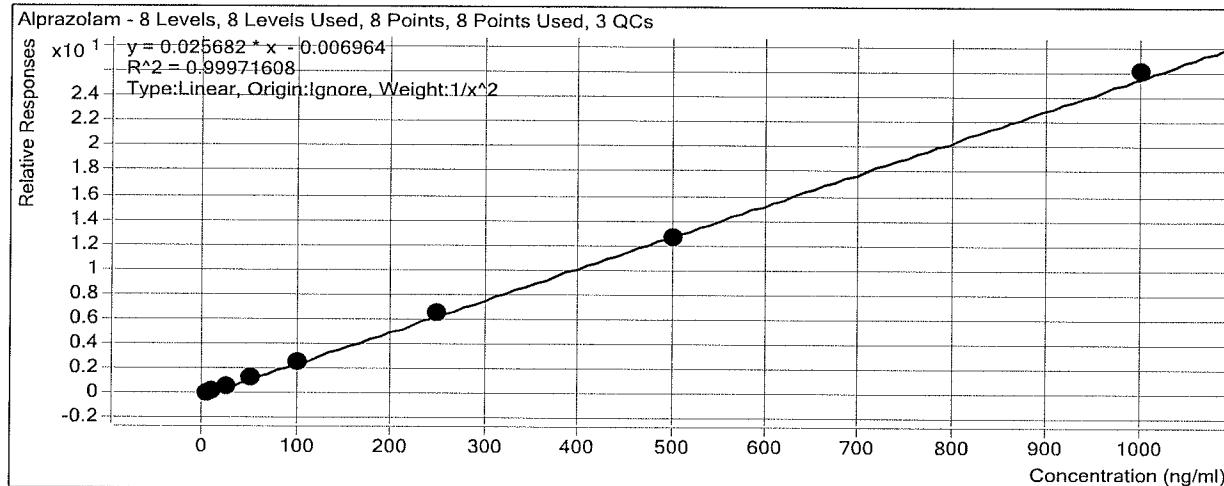
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	☑	5	5.1	101.3
a cal 2-10ng	2	☑	10	9.7	97.4
a QC 10	2	☑	10	9.1	90.6
a cal 3-25ng	3	☑	25	25.1	100.3
a cal 4-50ng	4	☑	50	49.7	99.4
a cal 5-100ng	5	☑	100	99.6	99.6
a qc 100	5	☑	100	98.2	98.2
a cal 6-250ng	6	☑	250	253.4	101.4
a QC 250	6	☑	250	250.1	100.0
a cal 7-500ng	7	☑	500	494.5	98.9
a cal 8-1000ng	8	☑	1000	1017.0	101.7

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

Batch Data Path	D:\2018 Data\06062018 mdq\QuantResults\mdq p1a.batch.bin		
Analysis Time	6/6/2018 9:26 AM	**Analyst Name**	ISP Tox
Report Time	6/6/2018 9:28 AM	**Reporter Name**	ISP Tox
Last Calib Update	6/6/2018 9:26 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-06-05 12:23	**Data File**	a cal 1-5ngr.d
Sample Type	Calibration	**Sample Name**	a cal 1-5ng
Dilution	1	**Acq Method**	Quant Panel 1a 10-17.m
Position	P2-A1	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28 Panel 1
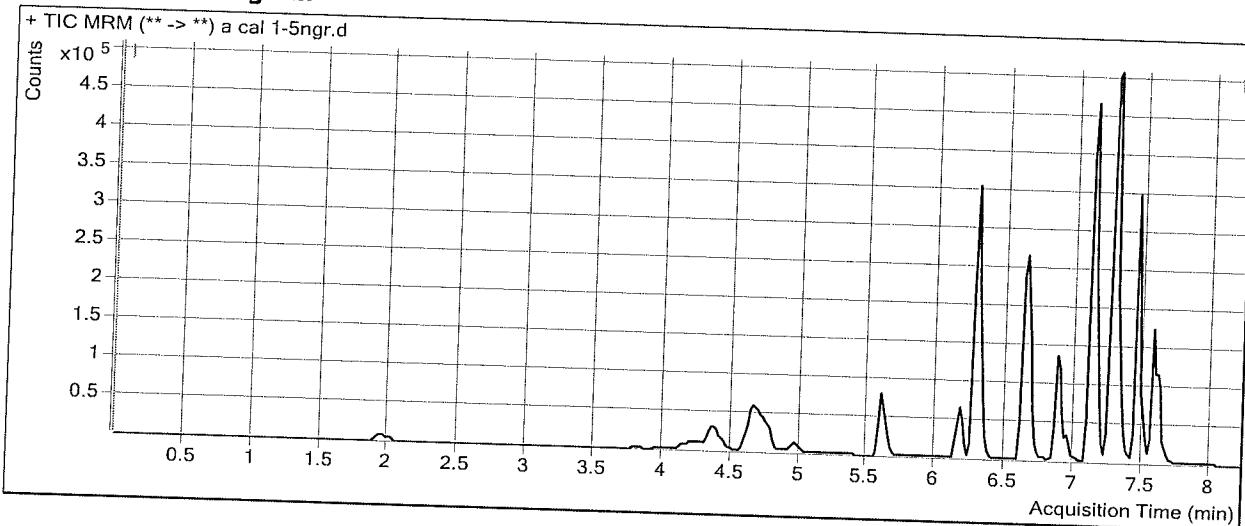
Sample Chromatogram

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

Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.328	1439	2765	0.5207	5.3807
Hydromorphone	Hydromorphone-D6	1.989	6460	45685	0.1414	5.2235
Codeine	Codeine-D6	4.095	1118	8254	0.1354	7.0483
Amphetamine	Amphetamine-D11	4.343	40469	89834	0.4505	4.7964
Oxycodone	Oxycodone-D6	4.429	14151	124833	0.1134	5.0156
Hydrocodone	Hydrocodone-D6	4.754	9540	107061	0.0891	3.7742
Norhydrocodone	Norhydrocodone-D3	4.759	825	41294	0.0200	6.8815
Methamphetamine	Methamphetamine-D11	4.782	67307	272896	0.2466	4.9470
6-MAM	6-MAM-D6	4.968	385	38597	0.0100	0.5278
Phentermine	Phentermine-D5	5.646	8734	280283	0.0312	4.3674
Dextrorphan	Dextrorphan-D3	6.163	10063	165778	0.0607	5.0425
7-aminoclonazepam	7-Aminoclonazepam-D4	6.292	15722	142131	0.1106	4.1238
Tramadol	Tramadol-13C-D3	6.302	88389	853903	0.1035	4.7682
Doxylamine	Doxylamine-D5	6.662	81248	796790	0.1020	5.0447
Bupropion	Bupropion-D9	6.890	41711	411588	0.1013	5.0587
Meprobamate	Meprobamate-D7	6.972	4551	58630	0.0776	5.1343
Venlafaxine	Venlafaxine-D6	7.105	80228	763026	0.1051	4.6093
Trazodone	Trazodone-D6	7.316	37318	343045	0.1088	5.1125
Zolpidem	Zolpidem-D6	7.142	59314	597690	0.0992	4.6177
Citalopram	Citalopram-D6	7.237	49184	472129	0.1042	4.9774
Dextromethorphan	Dextromethorphan-D3	7.268	11155	108589	0.1027	5.5057
Diphenhydramine	Diphenhydramine-D3	7.291	75718	799298	0.0947	5.0491
Promethazine	Promethazine-D3	7.446	64082	726567	0.0882	4.9403

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Clonazepam	Clonazepam-D4	7.482	10565	29601	0.3569	5.1136
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.560	3644	36422	0.1000	5.0410
Carisoprodol	Carisoprodol-D7	7.592	26825	304365	0.0881	4.8592
Lorazepam	Clonazepam-D4	7.602	5762	29601	0.1947	4.8271
Alprazolam	Alprazolam-D5	7.626	24549	199429	0.1231	5.0644

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

Batch Data Path	D:\2018 Data\06062018 mdq\QuantResults\mdq p1a.batch.bin
Analysis Time	6/6/2018 9:26 AM
Report Time	6/6/2018 9:28 AM
Last Calib Update	6/6/2018 9:26 AM

Analyst Name	ISP Tox		
Reporter Name	ISP Tox		
Batch State	Processed		

Analysis Info

Acq Time	2018-06-05 11:58	**Data File**	a cal 2-10ng.d	
Sample Type	Calibration	**Sample Name**	a cal 2-10ng	
Dilution	1	**Acq Method**	Quant Panel 1a 10-17.m	
Position	P2-B1	**Sample Info**		
Inj Vol	-1	**Comment**	AM 28 Panel 1	
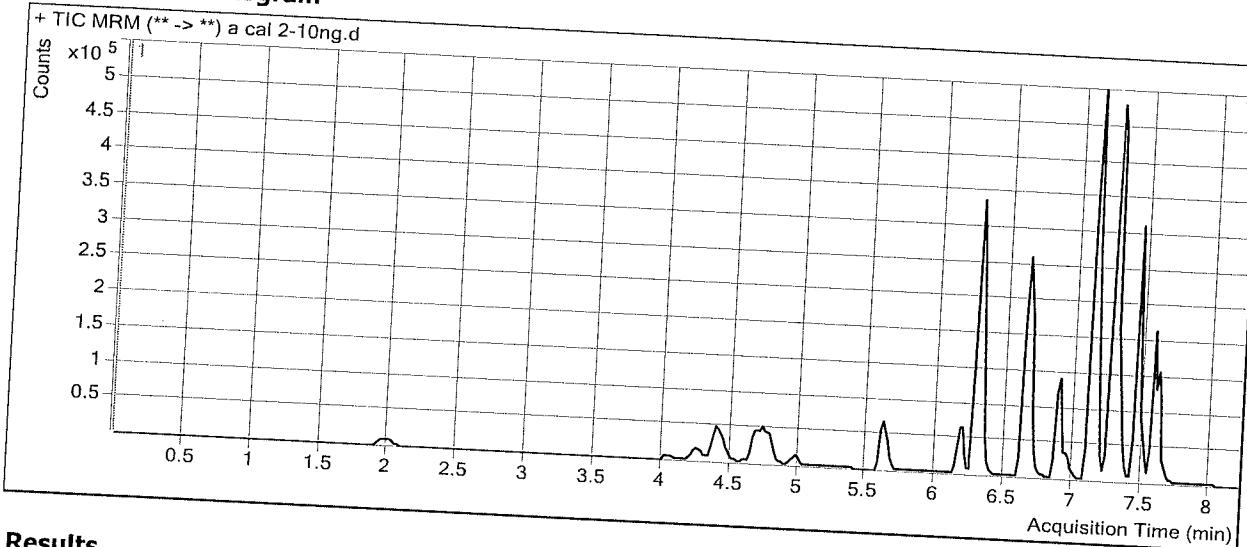
Sample Chromatogram

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

Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.328	3057	3014	1.0141	9.9688
Hydromorphone	Hydromorphone-D6	1.989	13774	53257	0.2586	9.2796
Codeine	Codeine-D6	4.095	6919	28180	0.2455	11.1807
Amphetamine	Amphetamine-D11	4.403	64695	73392	0.8815	10.4426
Oxycodone	Oxycodone-D6	4.449	30839	135088	0.2283	9.7373
Hydrocodone	Hydrocodone-D6	4.774	20551	115628	0.1777	9.3679
Norhydrocodone	Norhydrocodone-D3	4.779	1447	42219	0.0343	10.1521
Methamphetamine	Methamphetamine-D11	4.782	51144	166831	0.3066	7.2524
6-MAM	6-MAM-D6	4.988	1073	42399	0.0253	1.0837
Phentermine	Phentermine-D5	5.666	15401	238491	0.0646	9.7135
Dextrorphan	Dextrorphan-D3	6.183	20714	167177	0.1239	9.8724
7-aminoclonazepam	7-Aminoclonazepam-D4	6.292	34005	152854	0.2225	9.2882
Tramadol	Tramadol-13C-D3	6.302	181713	897583	0.2024	9.8822
Doxylamine	Doxylamine-D5	6.662	157641	817179	0.1929	9.6284
Bupropion	Bupropion-D9	6.910	76927	386693	0.1989	9.7044
Meprobamate	Meprobamate-D7	6.972	10097	66247	0.1524	9.5851
Venlafaxine	Venlafaxine-D6	7.105	168358	772366	0.2180	9.8511
Trazodone	Trazodone-D6	7.316	68243	307015	0.2223	9.7153
Zolpidem	Zolpidem-D6	7.142	129880	640824	0.2027	9.8151
Citalopram	Citalopram-D6	7.237	88329	413757	0.2135	10.0136
Dextromethorphan	Dextromethorphan-D3	7.268	19389	101882	0.1903	9.5683
Diphenhydramine	Diphenhydramine-D3	7.291	140059	743564	0.1884	9.8257
Promethazine	Promethazine-D3	7.446	124318	657472	0.1891	10.2350

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

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Clonazepam	Clonazepam-D4	7.482	22945	34303	0.6689	9.2150
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.560	7896	37957	0.2080	10.0109
Carisoprodol	Carisoprodol-D7	7.572	59596	308276	0.1933	10.4473
Lorazepam	Clonazepam-D4	7.602	12566	34303	0.3663	10.0255
Alprazolam	Alprazolam-D5	7.626	53321	219254	0.2432	9.7406

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

Batch Data Path	D:\2018 Data\06062018 mdq\QuantResults\mdq p1a.batch.bin		
Analysis Time	6/6/2018 9:26 AM		
Report Time	6/6/2018 9:28 AM	**Analyst Name**	ISP Tox
Last Calib Update	6/6/2018 9:26 AM	**Reporter Name**	ISP Tox
		Batch State	Processed

Analysis Info

Acq Time	2018-06-05 12:10	**Data File**	a cal 3-25ng.d
Sample Type	Calibration	**Sample Name**	a cal 3-25ng
Dilution	1	**Acq Method**	Quant Panel 1a 10-17.m
Position	P2-C1	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28 Panel 1
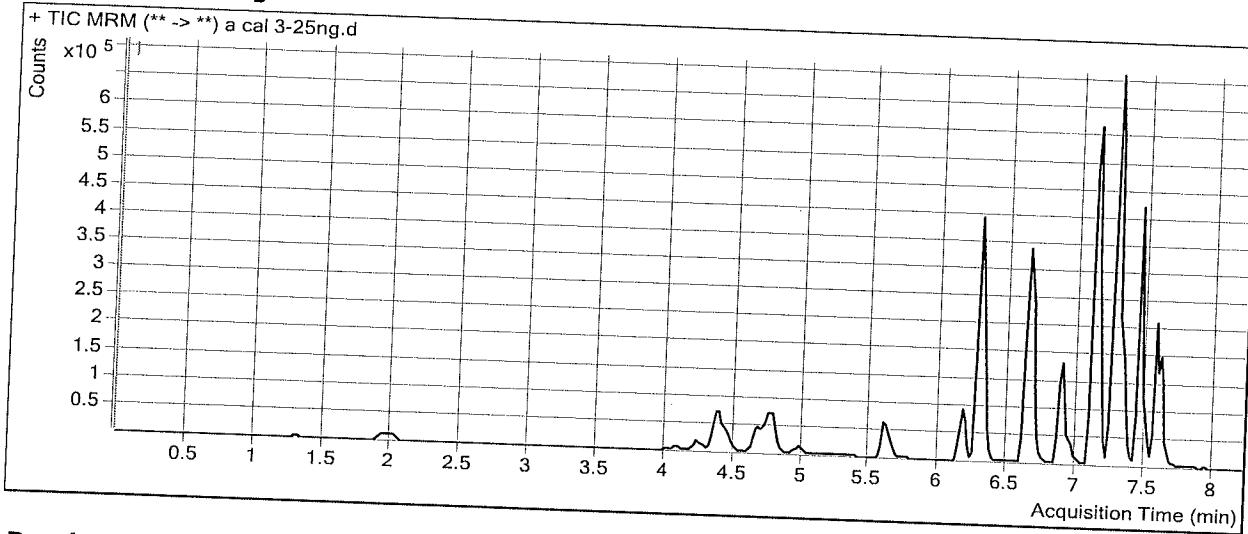
Sample Chromatogram

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

Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.308	6833	2522	2.7089	25.7274
Hydromorphone	Hydromorphone-D6	1.989	31550	47031	0.6708	23.5411
Codeine	Codeine-D6	4.095	14263	24573	0.5804	23.7457
Amphetamine	Amphetamine-D11	4.383	150261	71688	2.0960	26.3532
Oxycodone	Oxycodone-D6	4.449	68452	119725	0.5717	23.8477
Hydrocodone	Hydrocodone-D6	4.754	46111	101963	0.4522	26.6923
Norhydrocodone	Norhydrocodone-D3	4.779	3584	36957	0.0970	24.5076
Methamphetamine	Methamphetamine-D11	4.782	132636	175910	0.7540	24.4671
6-MAM	6-MAM-D6	4.988	2191	36801	0.0595	2.3251
Phentermine	Phentermine-D5	5.666	38318	229496	0.1670	26.0942
Dextrorphan	Dextrorphan-D3	6.163	48668	152896	0.3183	24.7284
7-aminoclonazepam	7-Aminoclonazepam-D4	6.292	75138	130883	0.5741	25.5233
Tramadol	Tramadol-13C-D3	6.302	409479	806657	0.5076	25.6570
Doxylamine	Doxylamine-D5	6.662	388950	762485	0.5101	25.6167
Bupropion	Bupropion-D9	6.890	195526	371950	0.5257	25.2578
Meprobamate	Meprobamate-D7	6.972	22243	54456	0.4085	24.8245
Venlafaxine	Venlafaxine-D6	7.105	407836	728883	0.5595	25.7184
Trazodone	Trazodone-D6	7.316	183757	312647	0.5877	24.5372
Zolpidem	Zolpidem-D6	7.142	288408	565002	0.5105	25.2800
Citalopram	Citalopram-D6	7.237	227499	419756	0.5420	25.1488
Dextromethorphan	Dextromethorphan-D3	7.268	52741	103272	0.5107	24.4290
Diphenhydramine	Diphenhydramine-D3	7.271	364903	758165	0.4813	24.7698
Promethazine	Promethazine-D3	7.446	321737	666335	0.4828	25.6521

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

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Clonazepam	Clonazepam-D4	7.482	50263	24425	2.0578	27.4743
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.560	17675	33580	0.5263	24.6602
Carisoprodol	Carisoprodol-D7	7.572	128017	266246	0.4808	25.7212
Lorazepam	Clonazepam-D4	7.602	24954	24425	1.0217	29.8732
Alprazolam	Alprazolam-D5	7.626	115460	181214	0.6371	25.0806

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

Batch Data Path	D:\2018 Data\06062018 mdq\QuantResults\mdq p1a.batch.bin
Analysis Time	6/6/2018 9:26 AM
Report Time	6/6/2018 9:28 AM
Last Calib Update	6/6/2018 9:26 AM

Analyst Name ISP Tox
Reporter Name ISP Tox
Batch State Processed

Analysis Info

Acq Time	2018-06-05 12:36	**Data File**	a cal 4-50ng.d
Sample Type	Calibration	**Sample Name**	a cal 4-50ng
Dilution	1	**Acq Method**	Quant Panel 1a 10-17.m
Position	P2-D1	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28 Panel 1
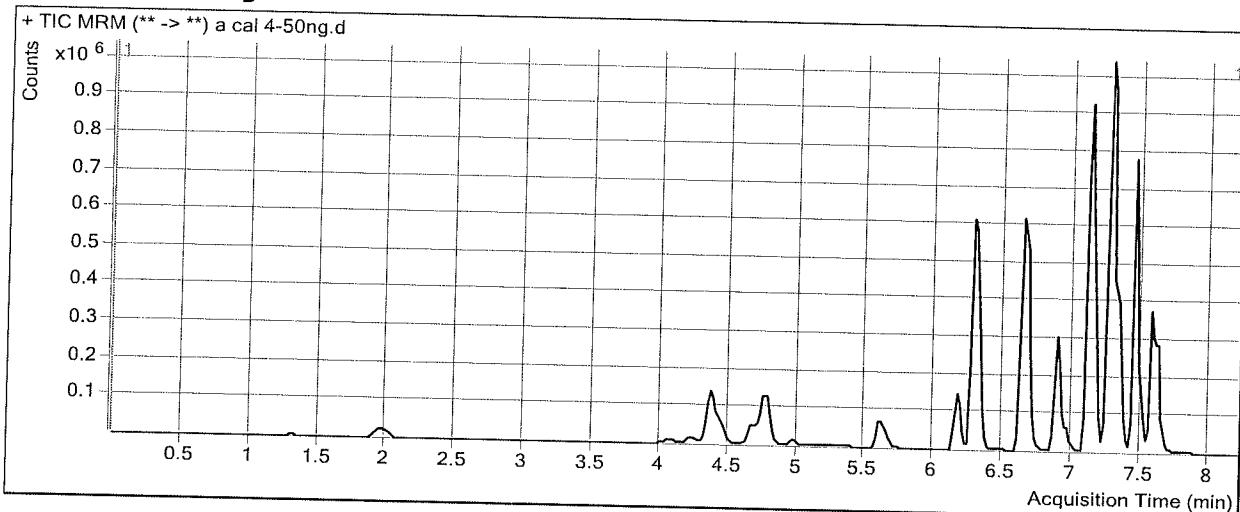
Sample Chromatogram

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

Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.328	13812	2711	5.0950	47.9137
Hydromorphone	Hydromorphone-D6	1.989	66855	45763	1.4609	50.8761
Codeine	Codeine-D6	4.095	30820	24780	1.2438	48.6341
Amphetamine	Amphetamine-D11	4.383	308650	76770	4.0204	51.5630
Oxycodone	Oxycodone-D6	4.449	151500	124792	1.2140	50.2348
Hydrocodone	Hydrocodone-D6	4.754	97748	110844	0.8818	53.8061
Norhydrocodone	Norhydrocodone-D3	4.779	7825	38653	0.2024	48.6492
Methamphetamine	Methamphetamine-D11	4.782	270986	174570	1.5523	55.1815
6-MAM	6-MAM-D6	4.988	5236	38951	0.1344	5.0400
Phentermine	Phentermine-D5	5.666	82504	250894	0.3288	51.9918
Dextrorphan	Dextrorphan-D3	6.163	110972	174684	0.6353	48.9507
7-aminoclonazepam	7-Aminoclonazepam-D4	6.292	163604	138070	1.1849	53.7275
Tramadol	Tramadol-13C-D3	6.302	882001	886619	0.9948	50.8389
Doxylamine	Doxylamine-D5	6.662	850697	809953	1.0503	52.8449
Bupropion	Bupropion-D9	6.890	431684	403726	1.0692	51.1325
Meprobamate	Meprobamate-D7	6.972	46802	59477	0.7869	47.3469
Venlafaxine	Venlafaxine-D6	7.105	901751	802914	1.1231	51.8991
Trazodone	Trazodone-D6	7.316	421597	361723	1.1655	47.9697
Zolpidem	Zolpidem-D6	7.142	622367	602743	1.0326	51.5139
Citalopram	Citalopram-D6	7.237	536983	488757	1.0987	50.7977
Dextromethorphan	Dextromethorphan-D3	7.268	126344	124851	1.0120	47.6787
Diphenhydramine	Diphenhydramine-D3	7.291	831425	862564	0.9639	49.3897
Promethazine	Promethazine-D3	7.446	800848	883478	0.9065	47.8848

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

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Clonazepam	Clonazepam-D4	7.482	99414	27501	3.6149	47.9441
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.560	34732	33940	1.0233	47.5326
Carisoprodol	Carisoprodol-D7	7.572	264346	281500	0.9391	50.0658
Lorazepam	Clonazepam-D4	7.602	45786	27501	1.6649	49.3527
Alprazolam	Alprazolam-D5	7.626	240667	189645	1.2690	49.6854

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

Batch Data Path   D:\2018 Data\06062018 mdq\QuantResults\mdq p1a.batch.bin
Analysis Time   6/6/2018 9:26 AM   **Analyst Name**   ISP Tox
Report Time   6/6/2018 9:28 AM   **Reporter Name** ISP Tox
Last Calib Update   6/6/2018 9:26 AM   **Batch State**   Processed

Analysis Info

Acq Time	2018-06-05 12:48	**Data File**	a cal 5-100ng.d
Sample Type	Calibration	**Sample Name**	a cal 5-100ng
Dilution	1	**Acq Method**	Quant Panel 1a 10-17.m
Position	P2-E1	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28 Panel 1
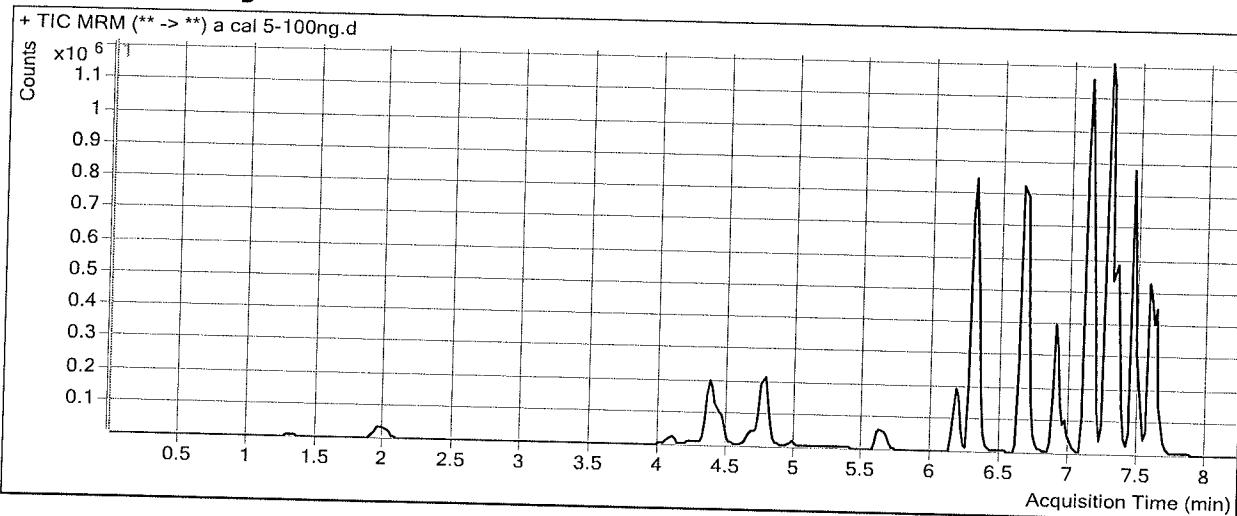
Sample Chromatogram

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

Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.328	26177	2383	10.9847	102.6774
Hydromorphone	Hydromorphone-D6	1.989	123104	43477	2.8315	98.2970
Codeine	Codeine-D6	4.095	56344	22275	2.5295	96.8746
Amphetamine	Amphetamine-D11	4.383	518261	60878	8.5131	110.4175
Oxycodone	Oxycodone-D6	4.449	266123	106486	2.4991	103.0322
Hydrocodone	Hydrocodone-D6	4.754	169794	94942	1.7884	111.0211
Norhydrocodone	Norhydrocodone-D3	4.779	13384	32334	0.4139	97.0626
Methamphetamine	Methamphetamine-D11	4.782	422532	142532	2.9645	109.5137
6-MAM	6-MAM-D6	4.988	9516	35332	0.2693	9.9327
Phentermine	Phentermine-D5	5.666	132017	204528	0.6455	102.6483
Dextrorphan	Dextrorphan-D3	6.163	186625	138120	1.3512	103.6598
7-aminoclonazepam	7-Aminoclonazepam-D4	6.292	292459	122450	2.3884	109.2941
Tramadol	Tramadol-13C-D3	6.302	1489164	757558	1.9657	101.0280
Doxylamine	Doxylamine-D5	6.662	1382535	716538	1.9295	97.1585
Bupropion	Bupropion-D9	6.890	649317	324368	2.0018	95.5229
Meprobamate	Meprobamate-D7	6.972	90372	53958	1.6748	100.1941
Venlafaxine	Venlafaxine-D6	7.105	1471005	661601	2.2234	103.0146
Trazodone	Trazodone-D6	7.316	688985	289299	2.3816	97.2874
Zolpidem	Zolpidem-D6	7.142	1113603	532327	2.0920	104.7449
Citalopram	Citalopram-D6	7.237	854861	380448	2.2470	103.7049
Dextromethorphan	Dextromethorphan-D3	7.268	199426	94044	2.1206	99.0986
Diphenhydramine	Diphenhydramine-D3	7.291	1321251	650596	2.0308	103.8192
Promethazine	Promethazine-D3	7.446	1236577	671488	1.8415	96.9592

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Clonazepam	Clonazepam-D4	7.482	178444	23300	7.6585	101.1031
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.560	65040	30048	2.1646	100.0550
Carisoprodol	Carisoprodol-D7	7.592	476274	256917	1.8538	98.6626
Lorazepam	Clonazepam-D4	7.602	74213	23300	3.1851	95.3943
Alprazolam	Alprazolam-D5	7.626	427743	167617	2.5519	99.6382

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

Batch Data Path	D:\2018 Data\06062018 mdq\QuantResults\mdq p1a.batch.bin		
Analysis Time	6/6/2018 9:26 AM	**Analyst Name**	ISP Tox
Report Time	6/6/2018 9:28 AM	**Reporter Name**	ISP Tox
Last Calib Update	6/6/2018 9:26 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-06-05 13:01	**Data File**	a cal 6-250ng.d
Sample Type	Calibration	**Sample Name**	a cal 6-250ng
Dilution	1	**Acq Method**	Quant Panel 1a 10-17.m
Position	P2-F1	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28 Panel 1
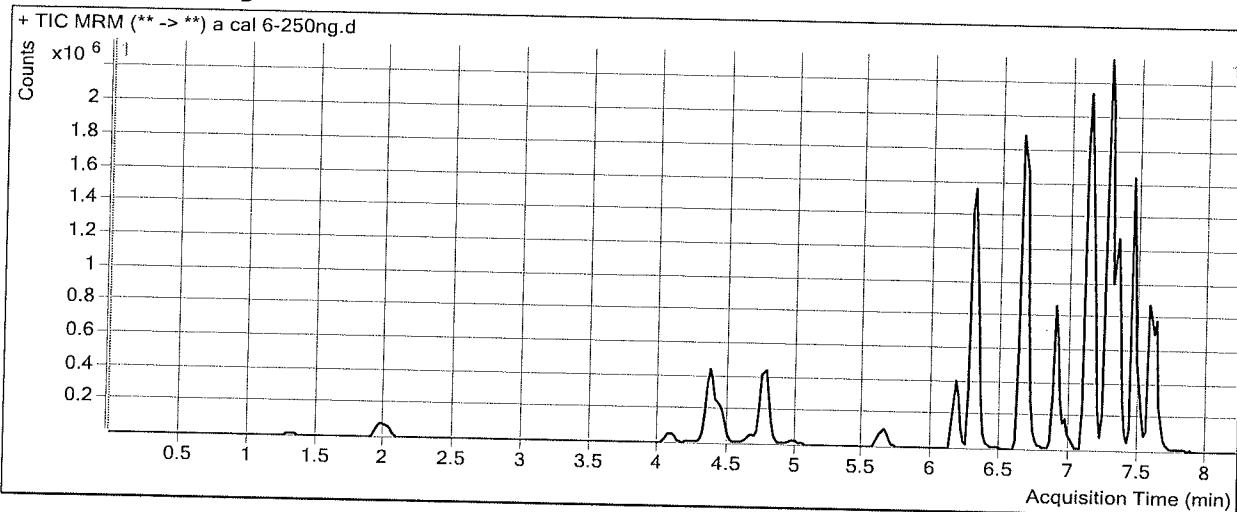
Sample Chromatogram

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

Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.328	60626	2293	26.4380	246.3662
Hydromorphone	Hydromorphone-D6	1.989	282677	35250	8.0193	277.7907
Codeine	Codeine-D6	4.095	125360	19184	6.5348	247.1546
Amphetamine	Amphetamine-D11	4.383	1206262	60077	20.0786	261.9265
Oxycodone	Oxycodone-D6	4.449	585028	92127	6.3503	261.2497
Hydrocodone	Hydrocodone-D6	4.754	362664	84852	4.2741	267.8970
Norhydrocodone	Norhydrocodone-D3	4.779	30778	28112	1.0948	252.9212
Methamphetamine	Methamphetamine-D11	4.782	960912	136860	7.0212	265.5911
6-MAM	6-MAM-D6	4.988	21711	32014	0.6782	24.7582
Phentermine	Phentermine-D5	5.646	305027	186975	1.6314	260.3799
Dextrorphan	Dextrorphan-D3	6.163	438261	130656	3.3543	256.7383
7-aminoclonazepam	7-Aminoclonazepam-D4	6.292	605242	104540	5.7896	266.3353
Tramadol	Tramadol-13C-D3	6.302	3509390	720507	4.8707	251.1881
Doxylamine	Doxylamine-D5	6.641	3566654	688576	5.1798	260.9874
Bupropion	Bupropion-D9	6.890	1677753	307115	5.4629	260.2785
Meprobamate	Meprobamate-D7	6.972	184338	44400	4.1518	247.6113
Venlafaxine	Venlafaxine-D6	7.105	3363068	618870	5.4342	252.1749
Trazodone	Trazodone-D6	7.316	1603831	256006	6.2648	254.7762
Zolpidem	Zolpidem-D6	7.142	2430356	479484	5.0687	254.3158
Citalopram	Citalopram-D6	7.237	1930724	369550	5.2245	240.8918
Dextromethorphan	Dextromethorphan-D3	7.268	458708	84188	5.4486	253.4651
Diphenhydramine	Diphenhydramine-D3	7.291	3098770	626184	4.9487	252.6716
Promethazine	Promethazine-D3	7.446	2836926	580510	4.8870	256.7875

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Clonazepam	Clonazepam-D4	7.482	314200	16148	19.4578	256.2203
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.560	123529	21558	5.7302	264.1507
Carisoprodol	Carisoprodol-D7	7.592	916857	183331	5.0011	265.8666
Lorazepam	Clonazepam-D4	7.602	120018	16148	7.4325	224.0278
Alprazolam	Alprazolam-D5	7.626	839084	129067	6.5011	253.4145

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

Batch Data Path	D:\2018 Data\06062018 mdq\QuantResults\mdq p1a.batch.bin		
Analysis Time	6/6/2018 9:26 AM	**Analyst Name**	ISP Tox
Report Time	6/6/2018 9:28 AM	**Reporter Name**	ISP Tox
Last Calib Update	6/6/2018 9:26 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-06-05 13:14	**Data File**	a cal 7-500ng.d
Sample Type	Calibration	**Sample Name**	a cal 7-500ng
Dilution	1	**Acq Method**	Quant Panel 1a 10-17.m
Position	P2-G1	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28 Panel 1
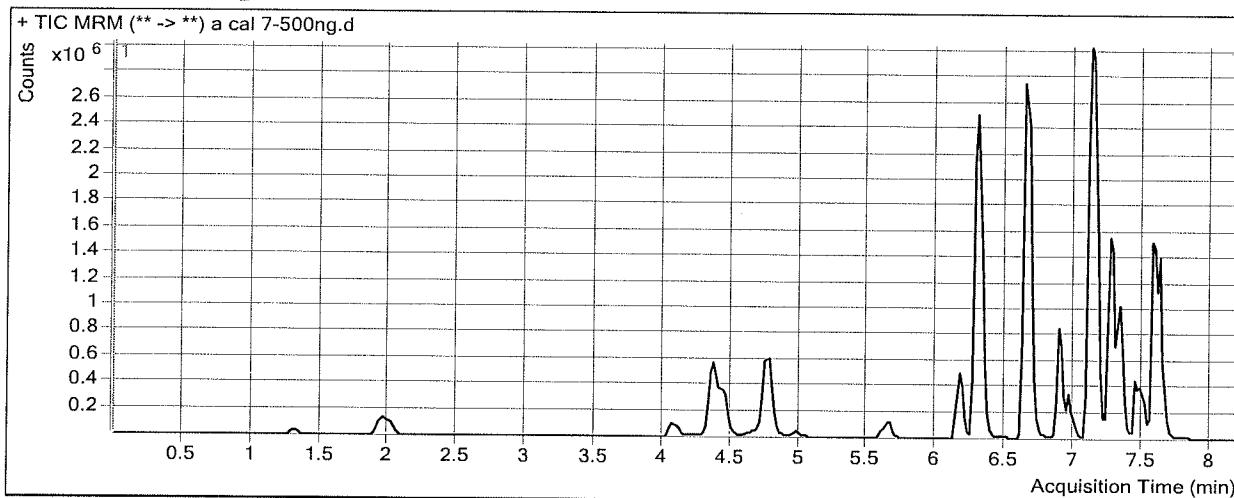
Sample Chromatogram

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

Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.308	111107	2064	53.8401	501.1572
Hydromorphone	Hydromorphone-D6	1.989	525029	36356	14.4411	499.9781
Codeine	Codeine-D6	4.076	229926	17510	13.1309	494.6457
Amphetamine	Amphetamine-D11	4.383	1561406	43638	35.7808	467.6262
Oxycodone	Oxycodone-D6	4.449	1069365	87521	12.2184	502.3346
Hydrocodone	Hydrocodone-D6	4.754	636171	77635	8.1944	515.3205
Norhydrocodone	Norhydrocodone-D3	4.779	51214	23435	2.1853	502.5396
Methamphetamine	Methamphetamine-D11	4.782	1232838	101198	12.1825	464.1682
6-MAM	6-MAM-D6	4.988	42570	31538	1.3498	49.1123
Phentermine	Phentermine-D5	5.646	433948	137346	3.1595	504.8599
Dextrorphan	Dextrorphan-D3	6.163	577213	89622	6.4406	492.5883
7-aminoclonazepam	7-Aminoclonazepam-D4	6.292	1079970	95540	11.3039	520.9455
Tramadol	Tramadol-13C-D3	6.302	5996103	614966	9.7503	503.4164
Doxylamine	Doxylamine-D5	6.641	5395242	555310	9.7157	489.6201
Bupropion	Bupropion-D9	6.890	1762528	162035	10.8775	518.0177
Meprobamate	Meprobamate-D7	6.972	419054	47234	8.8719	528.5323
Venlafaxine	Venlafaxine-D6	7.105	4557618	427732	10.6553	494.7256
Trazodone	Trazodone-D6	7.316	1328087	105468	12.5923	511.3957
Zolpidem	Zolpidem-D6	7.142	4581511	460954	9.9392	499.0427
Citalopram	Citalopram-D6	7.237	1422579	130500	10.9010	502.4303
Dextromethorphan	Dextromethorphan-D3	7.268	262344	24074	10.8973	506.1917
Diphenhydramine	Diphenhydramine-D3	7.291	2287601	236665	9.6660	493.3265
Promethazine	Promethazine-D3	7.446	858774	87854	9.7750	513.3193

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Clonazepam	Clonazepam-D4	7.482	566676	14926	37.9648	499.5206
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.560	231111	20958	11.0273	507.9351
Carisoprodol	Carisoprodol-D7	7.592	1727877	192473	8.9772	477.1044
Lorazepam	Clonazepam-D4	7.602	176189	14926	11.8039	356.4201
Alprazolam	Alprazolam-D5	7.626	1557038	122665	12.6935	494.5325

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

Batch Data Path   D:\2018 Data\06062018 mdq\QuantResults\mdq p1a.batch.bin
Analysis Time   6/6/2018 9:26 AM   **Analyst Name** ISP Tox
Report Time   6/6/2018 9:28 AM   **Reporter Name** ISP Tox
Last Calib Update   6/6/2018 9:26 AM   **Batch State**   Processed

Analysis Info

Acq Time   2018-06-05 13:26   **Data File**   a cal 8-1000ng.d
Sample Type   Calibration   **Sample Name**   a cal 8-1000ng
Dilution   1   **Acq Method**   Quant Panel 1a 10-17.m
Position   P2-H1   **Sample Info**
Inj Vol   -1   **Comment**   AM 28 Panel 1
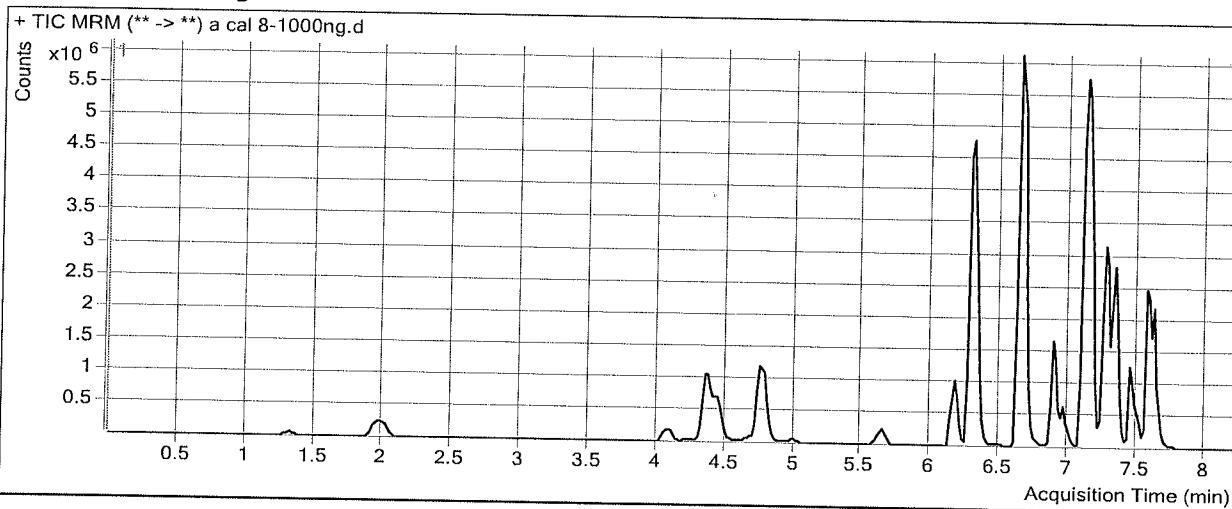
Sample Chromatogram

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

Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.328	210931	1960	107.6171	1001.1891
Hydromorphone	Hydromorphone-D6	1.989	1010069	35889	28.1442	974.0890
Codeine	Codeine-D6	4.076	438719	16285	26.9399	1012.7645
Amphetamine	Amphetamine-D11	4.363	3046755	48377	62.9796	823.9325
Oxycodone	Oxycodone-D6	4.429	2158325	90096	23.9558	984.5480
Hydrocodone	Hydrocodone-D6	4.754	1212121	80191	15.1154	952.1210
Norhydrocodone	Norhydrocodone-D3	4.779	94457	20754	4.5513	1044.1119
Methamphetamine	Methamphetamine-D11	4.782	2536282	115210	22.0145	842.4477
6-MAM	6-MAM-D6	4.968	92264	33099	2.7875	101.2481
Phentermine	Phentermine-D5	5.646	809722	149254	5.4251	867.3255
Dextrorphan	Dextrorphan-D3	6.163	1233353	95495	12.9154	987.3899
7-aminoclonazepam	7-Aminoclonazepam-D4	6.292	1771263	85930	20.6128	950.7622
Tramadol	Tramadol-13C-D3	6.302	13104793	681618	19.2260	993.2212
Doxylamine	Doxylamine-D5	6.641	12306506	651601	18.8866	951.8701
Bupropion	Bupropion-D9	6.890	3386515	169288	20.0044	952.4747
Meprobamate	Meprobamate-D7	6.972	817445	47475	17.2183	1025.2718
Venlafaxine	Venlafaxine-D6	7.105	10163724	472976	21.4889	998.0069
Trazodone	Trazodone-D6	7.316	3946830	152500	25.8808	1050.3229
Zolpidem	Zolpidem-D6	7.142	9128167	462807	19.7235	990.6699
Citalopram	Citalopram-D6	7.237	3107532	146757	21.1746	975.7738
Dextromethorphan	Dextromethorphan-D3	7.268	572249	26721	21.4156	994.0629
Diphenhydramine	Diphenhydramine-D3	7.291	4986651	256115	19.4703	993.4942
Promethazine	Promethazine-D3	7.446	2416970	129309	18.6914	981.2698

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

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Clonazepam	Clonazepam-D4	7.482	805249	10998	73.2189	962.9831
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.560	380119	17848	21.2980	980.6144
Carisoprodol	Carisoprodol-D7	7.592	2829580	158440	17.8590	948.9606
Lorazepam	Clonazepam-D4	7.622	168308	10998	15.3037	462.4142
Alprazolam	Alprazolam-D5	7.626	2603471	99705	26.1117	1017.0149