


Worklist: 2818

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>	
C2018-2252	1	133361	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2018-2290	1	133362	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2018-2334	1	133363	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2018-2383	1	133364	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
M2018-5334	1	133365	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
M2018-5546	1	133366	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
M2018-5769	2	133367	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2018-3190	1	133368	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2018-3191	1	133369	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2018-3192	1	133370	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2018-3193	1	133371	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2018-3256	1	133372	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2018-3280	1	133373	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	



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

Extraction Date: 11/29/18
Plate lot#: 0530563

Analyst: Anne Nord
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. ^A ^A
Batch Name: ~~11/29/18 mdq~~ ^A ~~pla mdq~~ ^A worklist path: 112918 mdq ^A Batch name: mdq p1a ^A
- 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: Limited curves: 6mam – 2.5-100 amphetamine 10-500, methamphetamine 10-1000
Morphine 10-1000, ~~Norhydrocodone 25-500~~, Phentermine 25-1000 Norhydrocodone not evaluated 12/3/18 ^A

Alprazolam – 25 ng calibrator dropped, secondary transition peak cut off, qualitative only.
a-hydroxyalprazolam 500 ng calibrator, 100 and 1000 QC dropped, primary transition peak cut off.



Toxicology AMM 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 (17120718)

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



ISP FORENSICS - Cd'A Instrument # 62340

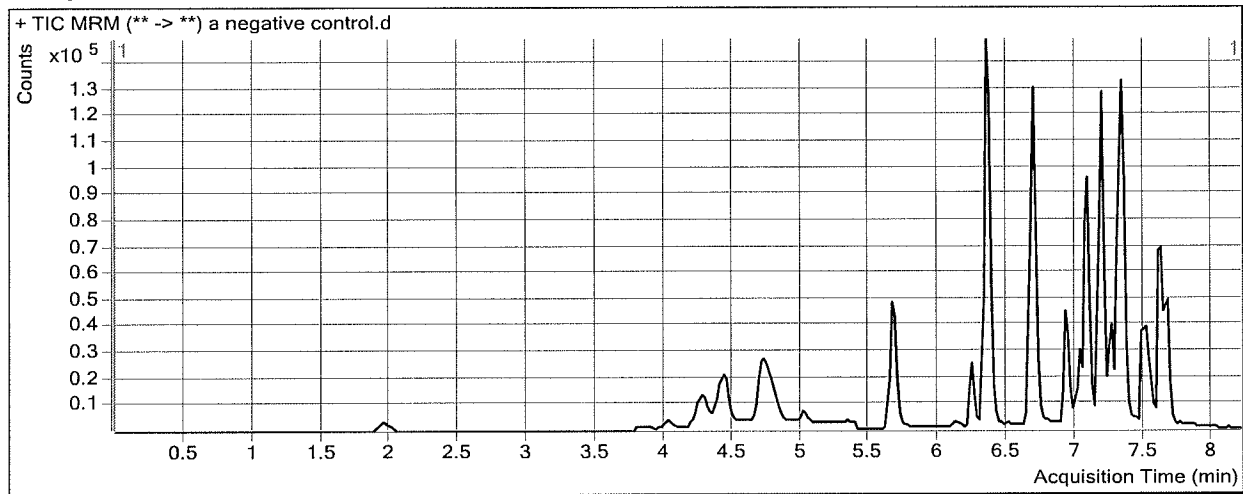
Multi-Drug Confirmatory Analysis Report

Batch Data Path D:\2018 Data\112918 mdq\QuantResults\mdq p1a.batch.bin
Analysis Time 12/3/2018 9:57 AM **Analyst Name** ISP Tox
Report Time 12/3/2018 9:59 AM **Reporter Name** ISP Tox
Last Calib Update 12/3/2018 9:57 AM **Batch State** Processed

Analysis Info

Acq Time 2018-11-29 15:09 **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



ISP FORENSICS - Cd'A Instrument # 62340

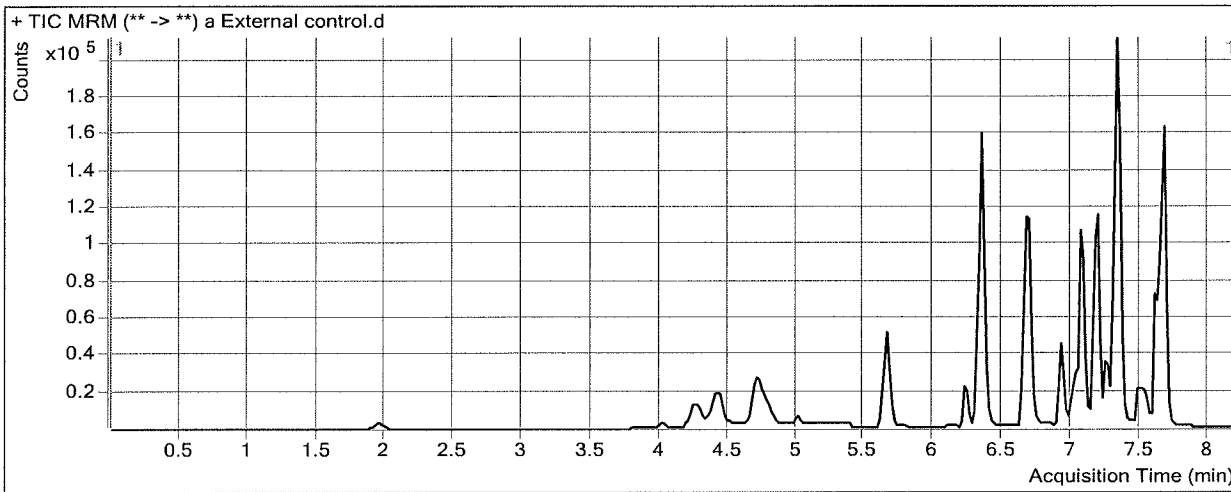
Multi-Drug Confirmatory Analysis Report

Batch Data Path D:\2018 Data\112918 mdq\QuantResults\mdq p1a.batch.bin
Analysis Time 12/3/2018 9:57 AM **Analyst Name** ISP Tox
Report Time 12/3/2018 9:59 AM **Reporter Name** ISP Tox
Last Calib Update 12/3/2018 9:57 AM **Batch State** Processed

Analysis Info

Acq Time 2018-11-29 15:21 **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



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Diphenhydramine	Diphenhydramine-D3	7.332	191550	215038	0.8908	40.7296
Lorazepam	Clonazepam-D4	7.643	34563	22644	1.5264	62.3926
Alprazolam	Alprazolam-D5	7.667	109835	96415	1.1392	43.3130

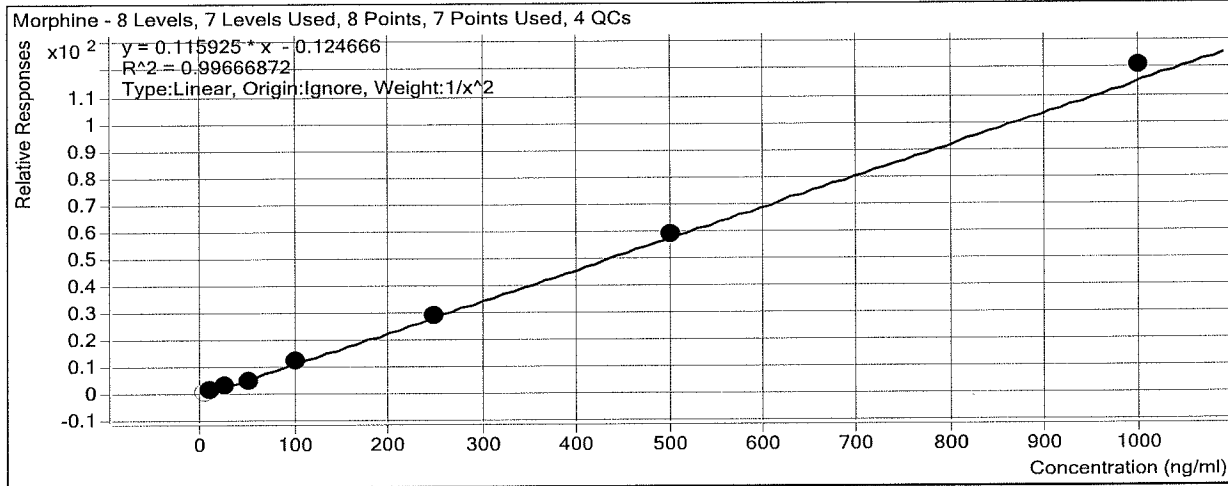
ISP Forensics Calibration Curve Report

Batch Data Path
Last Calib Update

D:\2018 Data\112918 mdq\QuantResults\mdq p1a.batch.bin
12/3/2018 9:57 AM

Analyst Name ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input type="checkbox"/>	5	8.8	176.6
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.1	101.4
a QC 10	2	<input checked="" type="checkbox"/>	10	13.1	131.2
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	25.2	100.8
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	44.7	89.5
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	103.3	103.3
a qc 100	5	<input checked="" type="checkbox"/>	100	112.2	112.2
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	247.4	99.0
a QC 250	6	<input checked="" type="checkbox"/>	250	269.3	107.7
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	508.0	101.6
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1044.0	104.4
a qc 1000	8	<input checked="" type="checkbox"/>	1000	973.2	97.3

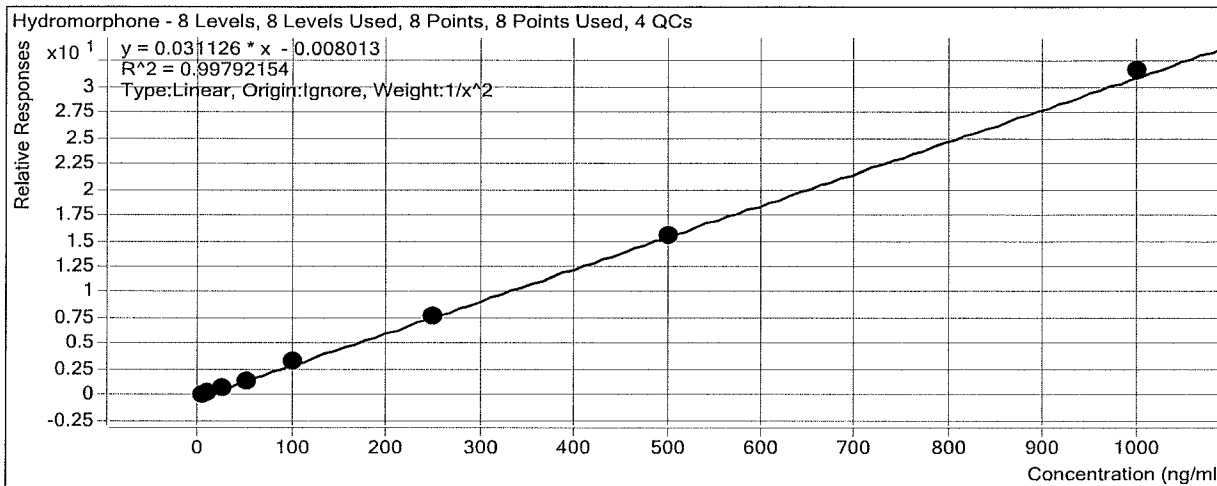
ISP Forensics Calibration Curve Report

Batch Data Path
Last Calib Update

D:\2018 Data\112918 mdq\QuantResults\mdq p1a.batch.bin
12/3/2018 9:57 AM

Analyst Name ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.2	103.1
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.5	94.9
a QC 10	2	<input checked="" type="checkbox"/>	10	9.7	96.9
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	24.5	98.1
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	47.5	95.1
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	106.6	106.6
a qc 100	5	<input checked="" type="checkbox"/>	100	99.7	99.7
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	251.2	100.5
a QC 250	6	<input checked="" type="checkbox"/>	250	256.5	102.6
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	500.9	100.2
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1016.2	101.6
a qc 1000	8	<input checked="" type="checkbox"/>	1000	1018.1	101.8

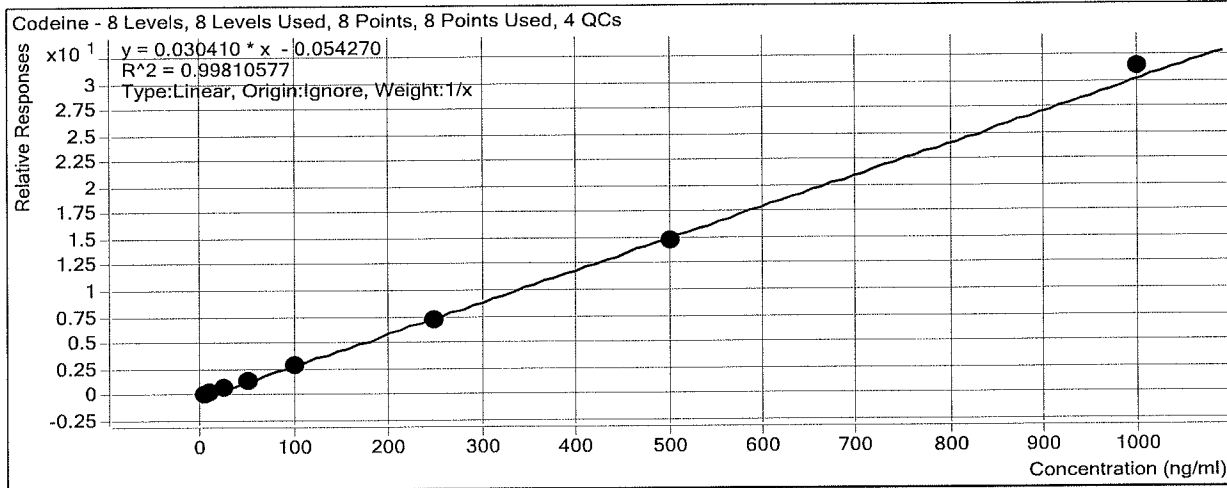
ISP Forensics Calibration Curve Report

Batch Data Path
Last Calib Update

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12/3/2018 9:57 AM

Analyst Name ISP TOX

Target Compound Codeine
Internal Standard Codeine-D6



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	6.4	127.0
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.1	100.9
a QC 10	2	<input checked="" type="checkbox"/>	10	10.9	109.0
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	23.5	93.9
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	43.2	86.4
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	94.5	94.5
a qc 100	5	<input checked="" type="checkbox"/>	100	98.0	98.0
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	240.1	96.0
a QC 250	6	<input checked="" type="checkbox"/>	250	247.0	98.8
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	489.6	97.9
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1032.6	103.3
a qc 1000	8	<input checked="" type="checkbox"/>	1000	976.8	97.7



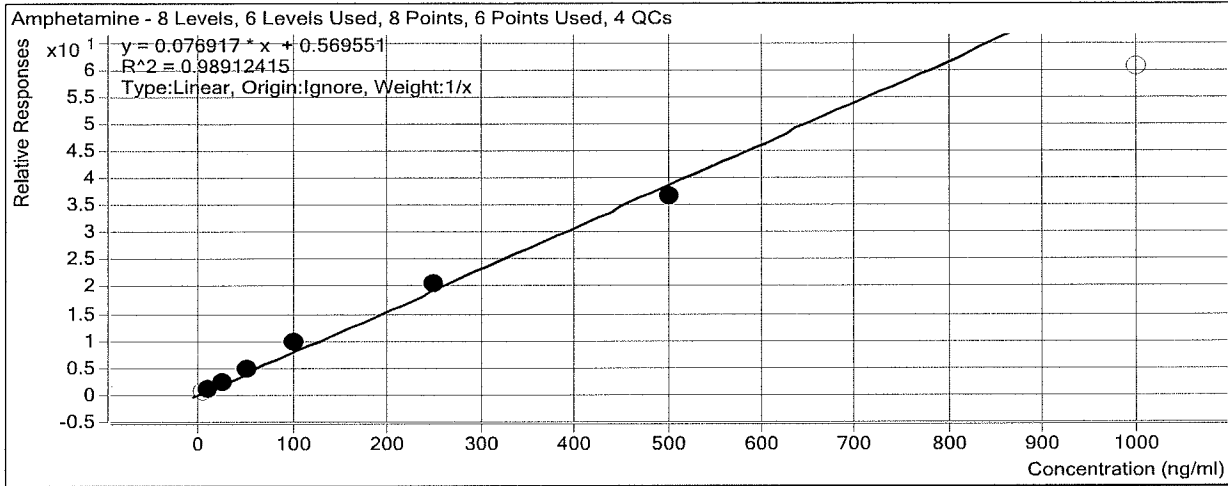
ISP Forensics Calibration Curve Report

Batch Data Path
Last Calib Update

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12/3/2018 9:57 AM

Analyst Name ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input type="checkbox"/>	5	4.7	93.8
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	7.0	70.2
a QC 10	2	<input checked="" type="checkbox"/>	10	8.3	83.3
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	24.8	99.2
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	57.0	114.0
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	119.6	119.6
a qc 100	5	<input checked="" type="checkbox"/>	100	115.3	115.3
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	258.5	103.4
a QC 250	6	<input checked="" type="checkbox"/>	250	277.4	110.9
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	468.1	93.6
a cal 8-1000ng	8	<input type="checkbox"/>	1000	780.0	78.0
a qc 1000	8	<input type="checkbox"/>	1000	760.6	76.1

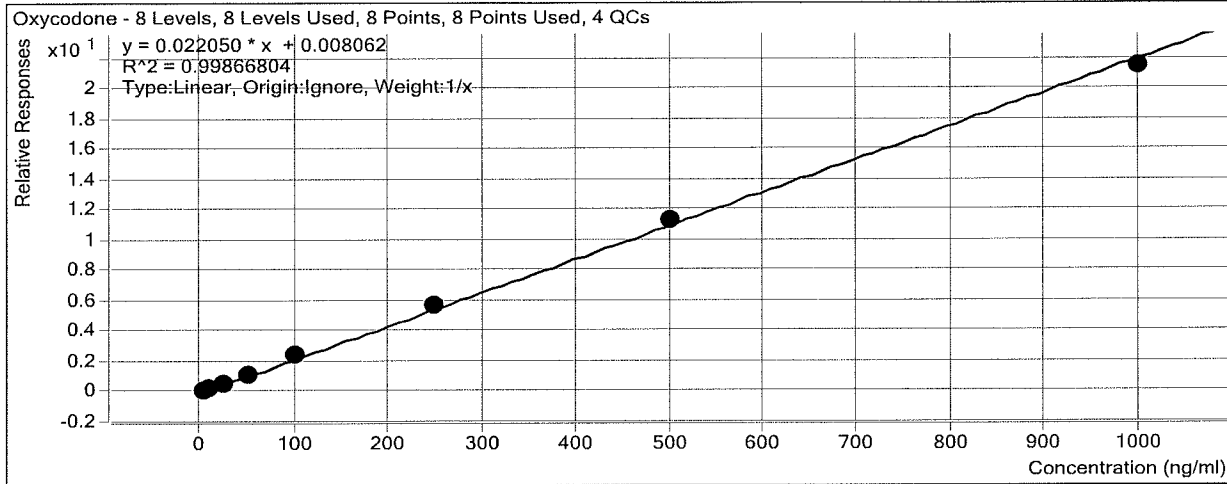
ISP Forensics Calibration Curve Report

Batch Data Path
Last Calib Update

D:\2018 Data\112918 mdq\QuantResults\mdq p1a.batch.bin
12/3/2018 9:57 AM

Analyst Name ISP TOX

Target Compound Oxycodone
Internal Standard Oxycodone-D6



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.0	99.4
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.2	91.8
a QC 10	2	<input checked="" type="checkbox"/>	10	10.5	105.3
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	25.3	101.1
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	47.8	95.6
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	108.7	108.7
a qc 100	5	<input checked="" type="checkbox"/>	100	100.6	100.6
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	258.8	103.5
a QC 250	6	<input checked="" type="checkbox"/>	250	288.7	115.5
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	513.2	102.6
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	972.1	97.2
a qc 1000	8	<input checked="" type="checkbox"/>	1000	1021.4	102.1



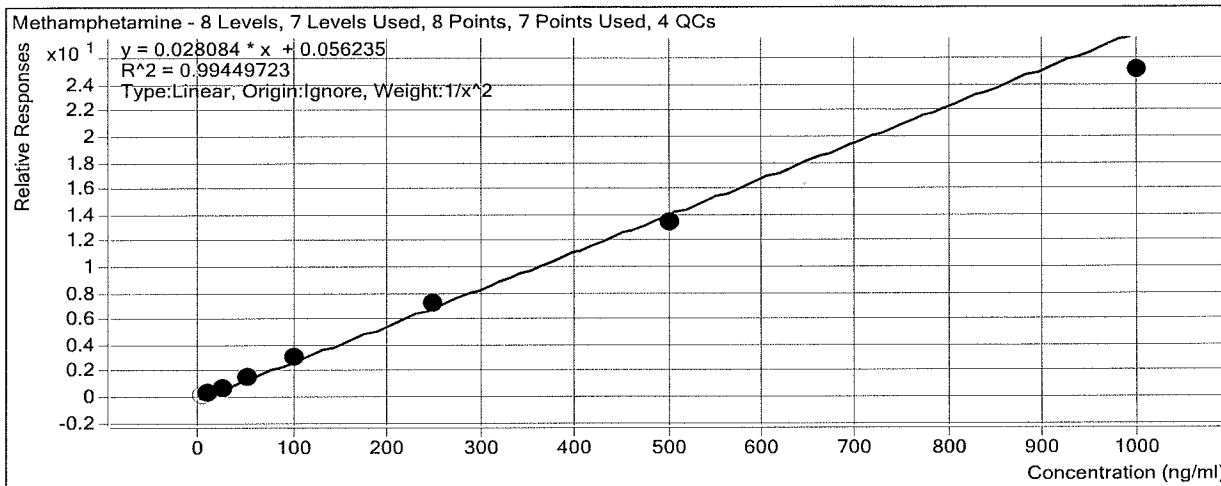
ISP Forensics Calibration Curve Report

Batch Data Path
Last Calib Update

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12/3/2018 9:57 AM

Analyst Name ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input type="checkbox"/>	5	6.9	137.8
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.8	97.5
a QC 10	2	<input checked="" type="checkbox"/>	10	12.3	123.4
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	25.7	102.8
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	51.3	102.6
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	108.9	108.9
a qc 100	5	<input checked="" type="checkbox"/>	100	107.9	107.9
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	257.9	103.1
a QC 250	6	<input checked="" type="checkbox"/>	250	256.0	102.4
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	479.1	95.8
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	891.8	89.2
a qc 1000	8	<input checked="" type="checkbox"/>	1000	903.2	90.3

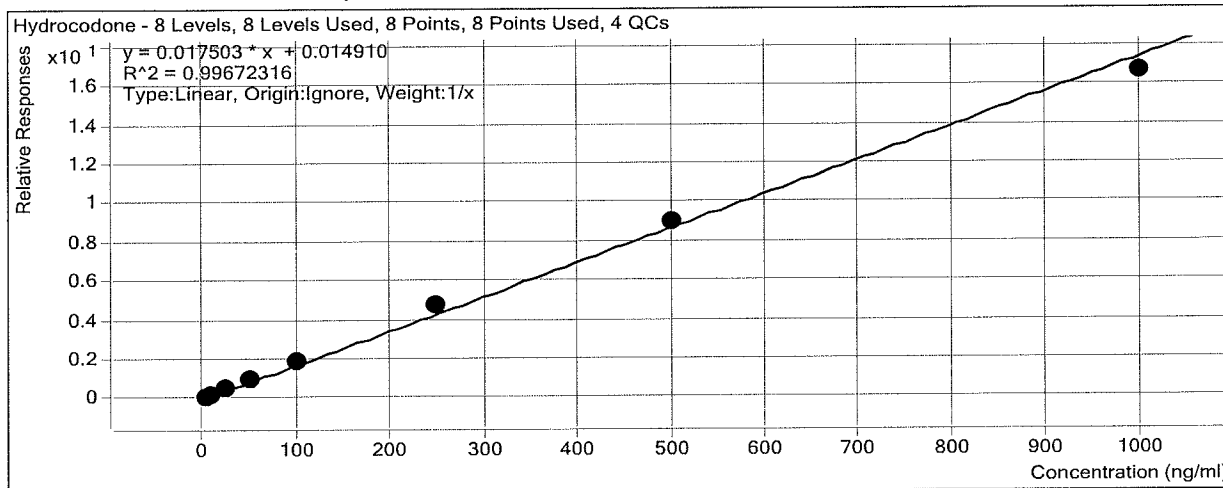
ISP Forensics Calibration Curve Report

Batch Data Path
Last Calib Update

D:\2018 Data\112918 mdq\QuantResults\mdq p1a.batch.bin
12/3/2018 9:57 AM

Analyst Name ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	4.4	87.7
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	8.6	86.4
a QC 10	2	<input checked="" type="checkbox"/>	10	10.5	104.7
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	26.7	106.6
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	51.6	103.3
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	109.2	109.2
a qc 100	5	<input checked="" type="checkbox"/>	100	107.6	107.6
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	270.6	108.2
a QC 250	6	<input checked="" type="checkbox"/>	250	277.4	111.0
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	516.8	103.4
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	952.1	95.2
a qc 1000	8	<input checked="" type="checkbox"/>	1000	876.1	87.6

ISP Forensics Calibration Curve Report

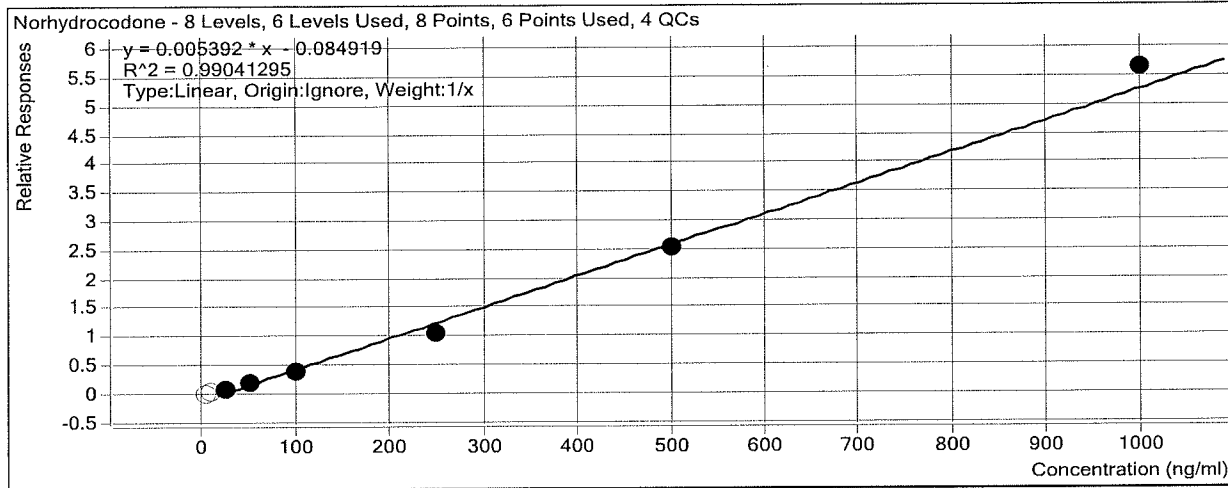
Batch Data Path
Last Calib Update

D:\2018 Data\112918 mdq\QuantResults\mdq p1a.batch.bin
12/3/2018 9:57 AM

Analyst Name

ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input type="checkbox"/>	5	17.7	354.6
a cal 2-10ng	2	<input type="checkbox"/>	10	21.7	216.8
a QC 10	2	<input type="checkbox"/>	10	21.1	211.0
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	32.0	127.9
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	48.7	97.4
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	87.5	87.5
a qc 100	5	<input checked="" type="checkbox"/>	100	91.7	91.7
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	210.0	84.0
a QC 250	6	<input checked="" type="checkbox"/>	250	253.5	101.4
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	485.4	97.1
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1061.4	106.1
a qc 1000	8	<input checked="" type="checkbox"/>	1000	1019.9	102.0

The compound - Not evaluated 12/03/18

A

ISP Forensics Calibration Curve Report

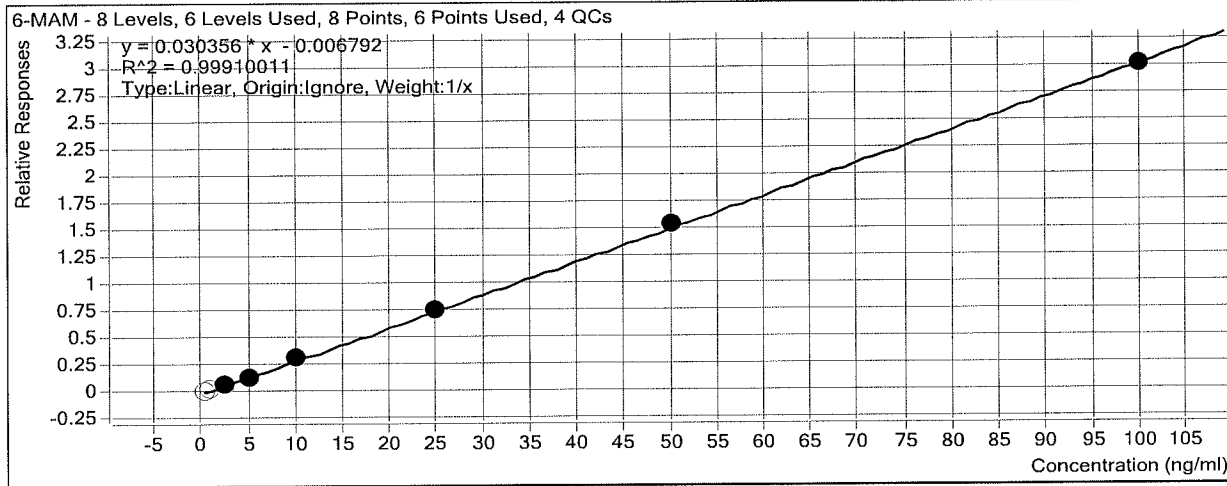
Batch Data Path
Last Calib Update

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12/3/2018 9:57 AM

Analyst Name

ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input type="checkbox"/>	0.5	0.6	130.0
a cal 2-10ng	2	<input type="checkbox"/>	1	1.1	106.3
a QC 10	2	<input checked="" type="checkbox"/>	1	1.4	136.9
a cal 3-25ng	3	<input checked="" type="checkbox"/>	2.5	2.7	107.3
a cal 4-50ng	4	<input checked="" type="checkbox"/>	5	4.4	87.8
a cal 5-100ng	5	<input checked="" type="checkbox"/>	10	10.4	104.4
a qc 100	5	<input checked="" type="checkbox"/>	10	9.7	97.4
a cal 6-250ng	6	<input checked="" type="checkbox"/>	25	24.9	99.5
a QC 250	6	<input checked="" type="checkbox"/>	25	24.8	99.3
a cal 7-500ng	7	<input checked="" type="checkbox"/>	50	50.9	101.9
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	100	99.2	99.2
a qc 1000	8	<input checked="" type="checkbox"/>	100	97.1	97.1

ISP Forensics Calibration Curve Report

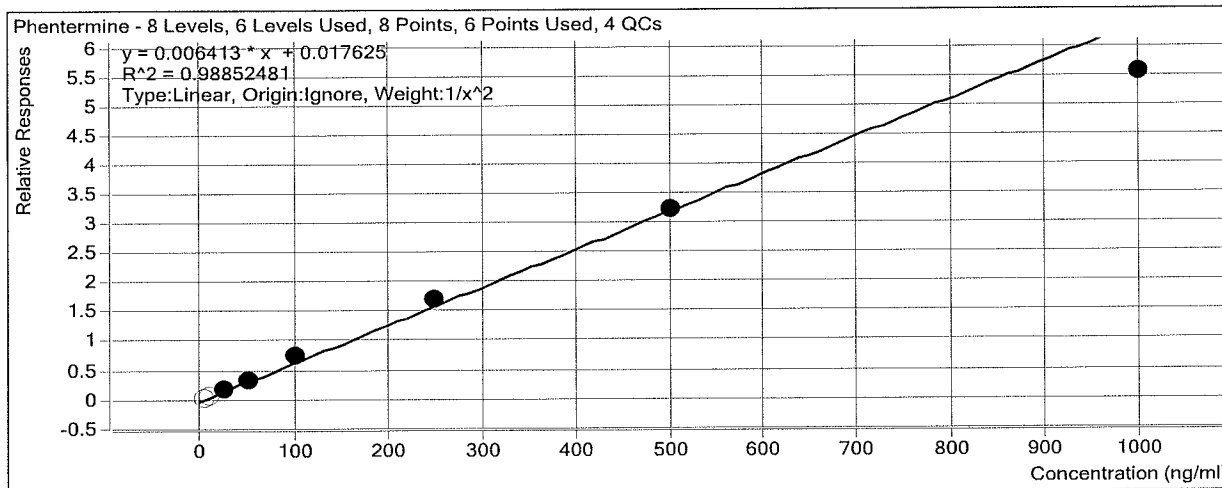
Batch Data Path
Last Calib Update

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12/3/2018 9:57 AM

Analyst Name

ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input type="checkbox"/>	5	3.4	68.7
a cal 2-10ng	2	<input type="checkbox"/>	10	7.6	76.1
a QC 10	2	<input checked="" type="checkbox"/>	10	8.1	81.3
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	24.2	96.7
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	50.1	100.1
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	112.5	112.5
a qc 100	5	<input checked="" type="checkbox"/>	100	103.4	103.4
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	260.7	104.3
a QC 250	6	<input checked="" type="checkbox"/>	250	265.6	106.3
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	500.4	100.1
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	863.1	86.3
a qc 1000	8	<input checked="" type="checkbox"/>	1000	918.0	91.8

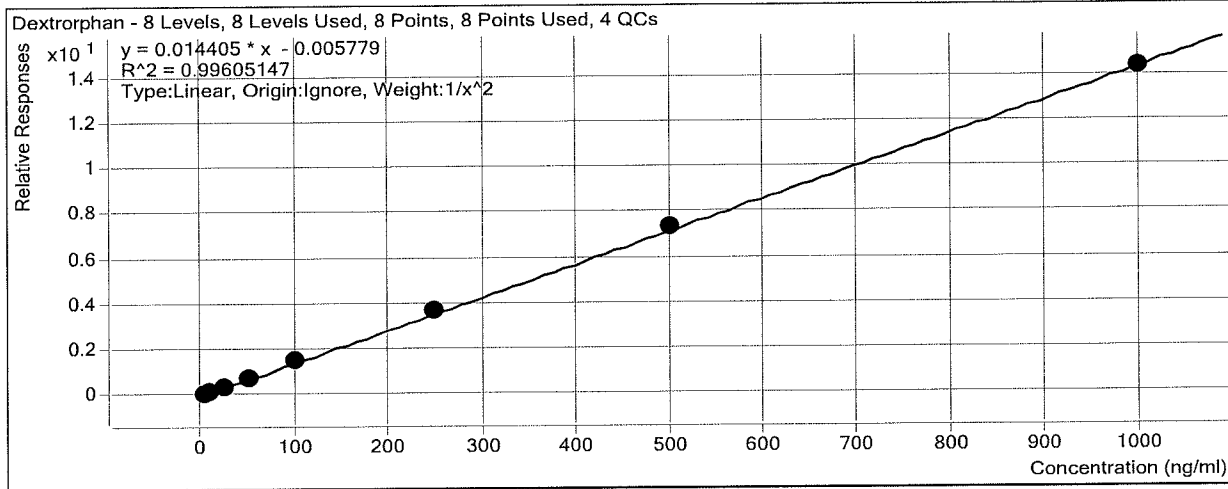
ISP Forensics Calibration Curve Report

Batch Data Path
Last Calib Update

D:\2018 Data\112918 mdq\QuantResults\mdq p1a.batch.bin
12/3/2018 9:57 AM

Analyst Name ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.3	105.6
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.0	90.5
a QC 10	2	<input checked="" type="checkbox"/>	10	10.2	102.5
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	23.8	95.1
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	48.8	97.5
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	106.5	106.5
a qc 100	5	<input checked="" type="checkbox"/>	100	101.6	101.6
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	256.8	102.7
a QC 250	6	<input checked="" type="checkbox"/>	250	270.7	108.3
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	512.4	102.5
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	995.6	99.6
a qc 1000	8	<input checked="" type="checkbox"/>	1000	985.1	98.5

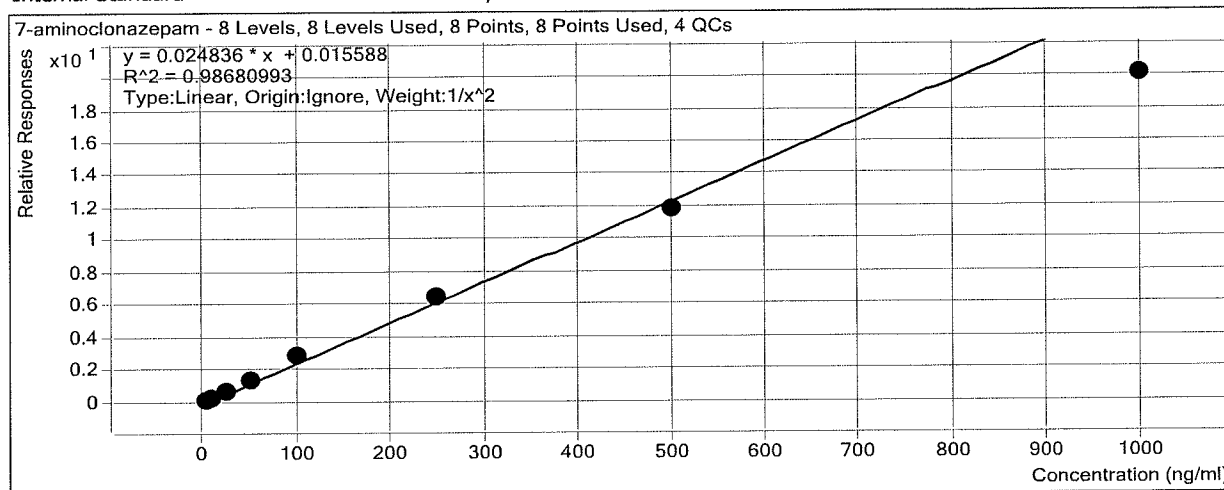
ISP Forensics Calibration Curve Report

Batch Data Path
Last Calib Update

D:\2018 Data\112918 mdq\QuantResults\mdq p1a.batch.bin
12/3/2018 9:57 AM

Analyst Name ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.1	101.1
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.3	92.7
a QC 10	2	<input checked="" type="checkbox"/>	10	11.3	113.5
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	26.8	107.3
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	52.5	105.0
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	112.8	112.8
a qc 100	5	<input checked="" type="checkbox"/>	100	107.5	107.5
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	261.7	104.7
a QC 250	6	<input checked="" type="checkbox"/>	250	271.3	108.5
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	477.8	95.6
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	808.8	80.9
a qc 1000	8	<input checked="" type="checkbox"/>	1000	806.3	80.6

ISP Forensics Calibration Curve Report

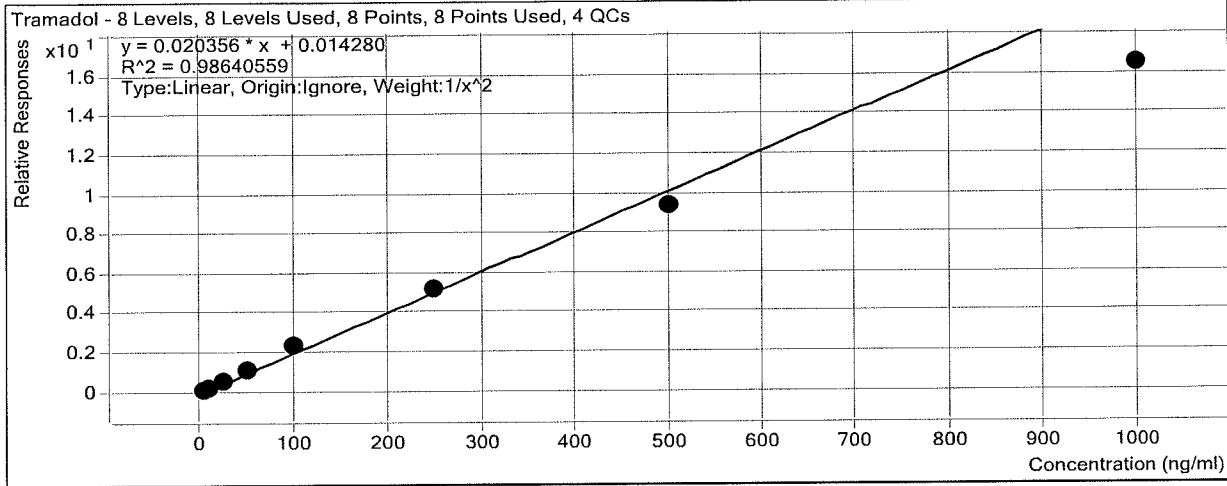
Batch Data Path
Last Calib Update

D:\2018 Data\112918 mdq\QuantResults\mdq p1a.batch.bin
12/3/2018 9:57 AM

Analyst Name

ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	4.9	98.0
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.8	97.6
a QC 10	2	<input checked="" type="checkbox"/>	10	10.5	105.5
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	27.4	109.8
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	54.1	108.2
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	111.8	111.8
a qc 100	5	<input checked="" type="checkbox"/>	100	113.2	113.2
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	252.6	101.0
a QC 250	6	<input checked="" type="checkbox"/>	250	260.8	104.3
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	463.2	92.6
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	810.0	81.0
a qc 1000	8	<input checked="" type="checkbox"/>	1000	801.7	80.2

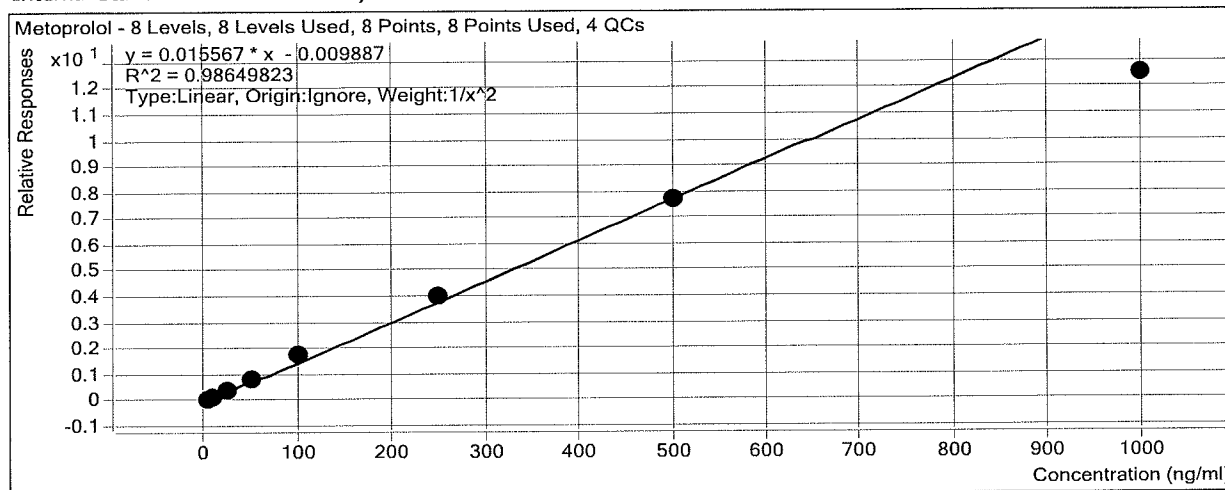
ISP Forensics Calibration Curve Report

Batch Data Path
Last Calib Update

D:\2018 Data\112918 mdq\QuantResults\mdq p1a.batch.bin
12/3/2018 9:57 AM

Analyst Name ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.1	102.0
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.1	91.2
a QC 10	2	<input checked="" type="checkbox"/>	10	12.0	120.4
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	26.7	106.6
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	52.1	104.1
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	113.8	113.8
a qc 100	5	<input checked="" type="checkbox"/>	100	109.0	109.0
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	256.3	102.5
a QC 250	6	<input checked="" type="checkbox"/>	250	285.4	114.2
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	495.6	99.1
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	804.8	80.5
a qc 1000	8	<input checked="" type="checkbox"/>	1000	877.1	87.7

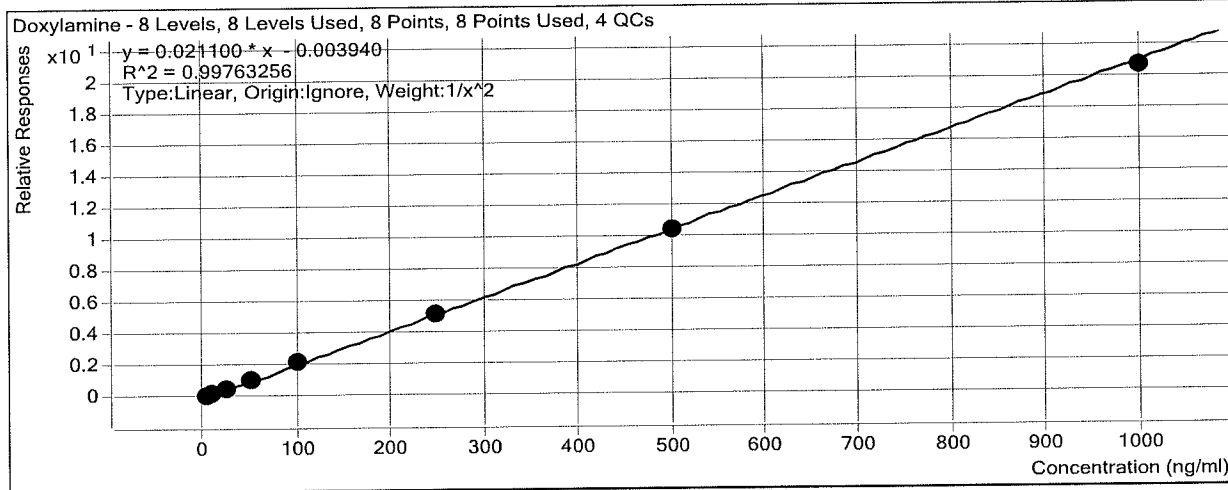
ISP Forensics Calibration Curve Report

Batch Data Path
Last Calib Update

D:\2018 Data\112918 mdq\QuantResults\mdq p1a.batch.bin
12/3/2018 9:57 AM

Analyst Name ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.2	103.1
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.2	92.0
a QC 10	2	<input checked="" type="checkbox"/>	10	10.7	106.9
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	25.3	101.4
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	52.0	103.9
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	104.9	104.9
a qc 100	5	<input checked="" type="checkbox"/>	100	102.7	102.7
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	244.5	97.8
a QC 250	6	<input checked="" type="checkbox"/>	250	255.5	102.2
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	495.7	99.1
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	977.0	97.7
a qc 1000	8	<input checked="" type="checkbox"/>	1000	924.6	92.5

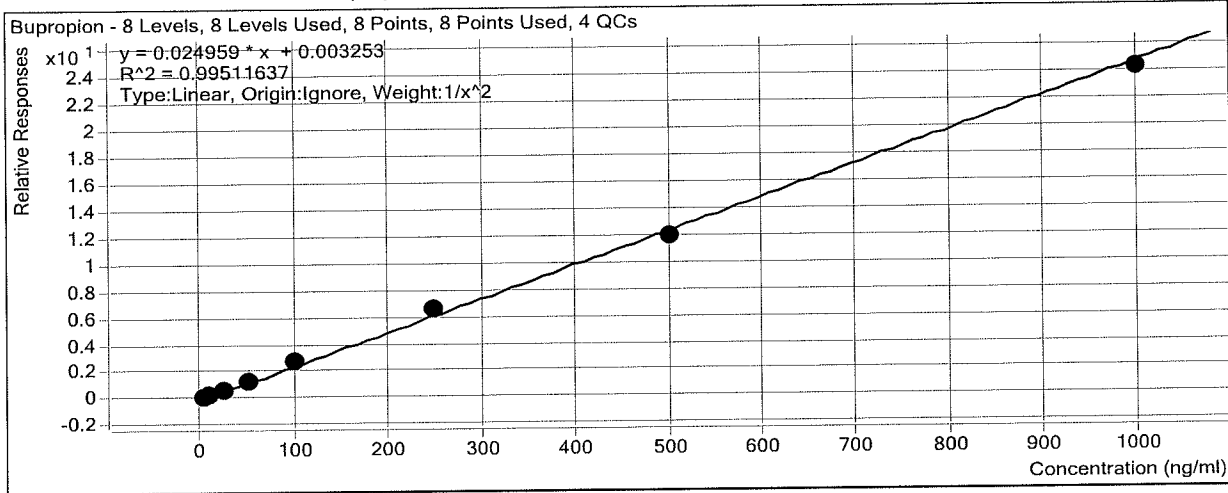
ISP Forensics Calibration Curve Report

Batch Data Path
Last Calib Update

D:\2018 Data\112918 mdq\QuantResults\mdq p1a.batch.bin
12/3/2018 9:57 AM

Analyst Name ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.2	104.0
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.1	90.8
a QC 10	2	<input checked="" type="checkbox"/>	10	9.4	93.7
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	25.8	103.1
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	47.5	95.1
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	107.6	107.6
a qc 100	5	<input checked="" type="checkbox"/>	100	100.9	100.9
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	266.0	106.4
a QC 250	6	<input checked="" type="checkbox"/>	250	255.4	102.2
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	478.0	95.6
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	974.2	97.4
a qc 1000	8	<input checked="" type="checkbox"/>	1000	963.9	96.4

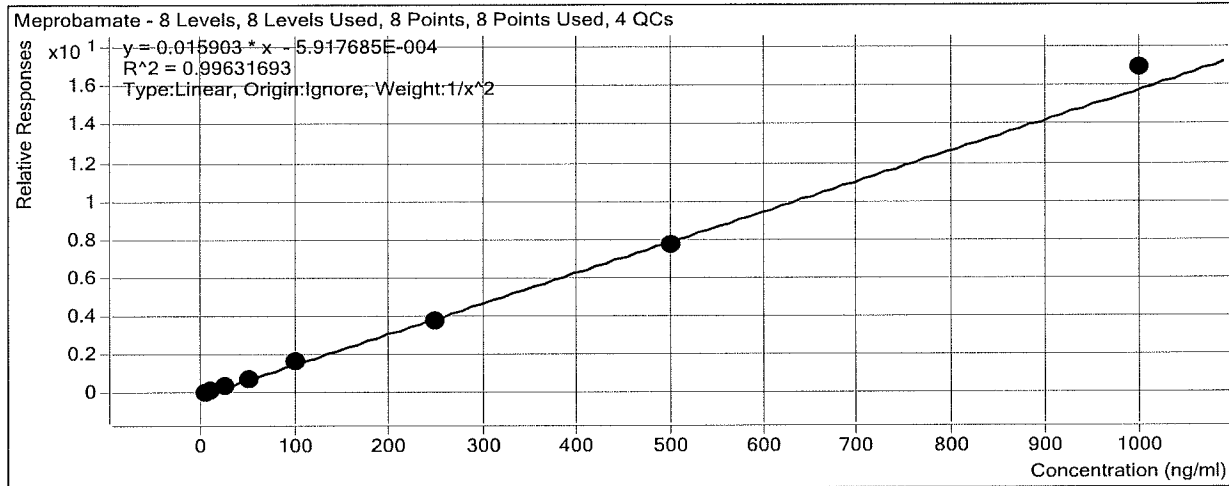
ISP Forensics Calibration Curve Report

Batch Data Path
Last Calib Update

D:\2018 Data\112918 mdq\QuantResults\mdq p1a.batch.bin
12/3/2018 9:57 AM

Analyst Name ISP TOX

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

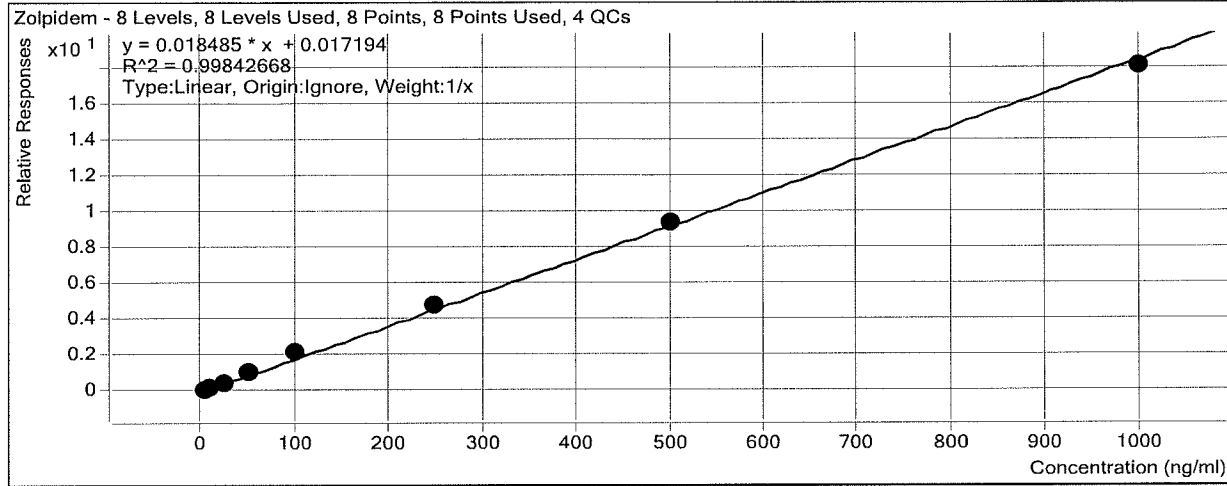


Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.1	102.4
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.3	92.9
a QC 10	2	<input checked="" type="checkbox"/>	10	13.0	130.2
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	26.8	107.2
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	48.7	97.4
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	101.6	101.6
a qc 100	5	<input checked="" type="checkbox"/>	100	108.7	108.7
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	235.5	94.2
a QC 250	6	<input checked="" type="checkbox"/>	250	277.8	111.1
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	489.7	97.9
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1063.6	106.4
a qc 1000	8	<input checked="" type="checkbox"/>	1000	1068.1	106.8

ISP Forensics Calibration Curve Report

Batch Data Path D:\2018 Data\112918 mdq\QuantResults\mdq p1a.batch.bin
Last Calib Update 12/3/2018 9:57 AM **Analyst Name** ISP TOX

Target Compound Zolpidem
Internal Standard Zolpidem-D6



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	4.6	91.5
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.0	89.6
a QC 10	2	<input checked="" type="checkbox"/>	10	9.6	96.0
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	25.0	100.0
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	52.5	105.1
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	112.9	112.9
a qc 100	5	<input checked="" type="checkbox"/>	100	106.0	106.0
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	256.3	102.5
a QC 250	6	<input checked="" type="checkbox"/>	250	277.1	110.8
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	505.0	101.0
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	974.7	97.5
a qc 1000	8	<input checked="" type="checkbox"/>	1000	992.2	99.2

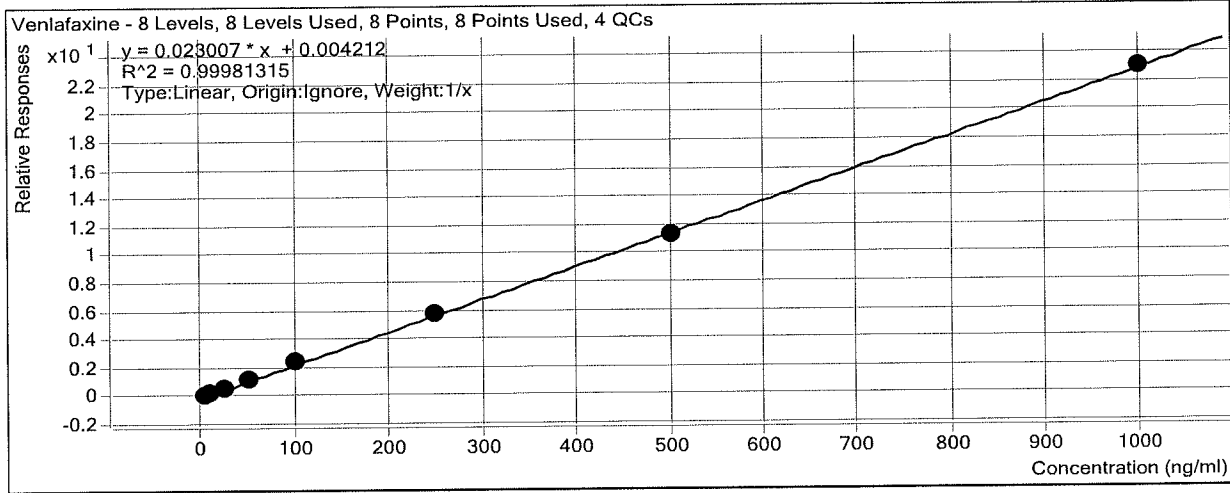
ISP Forensics Calibration Curve Report

Batch Data Path
Last Calib Update

D:\2018 Data\112918 mdq\QuantResults\mdq p1a.batch.bin
12/3/2018 9:57 AM

Analyst Name ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.0	100.2
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.5	94.7
a QC 10	2	<input checked="" type="checkbox"/>	10	10.0	100.2
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	25.9	103.5
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	49.0	98.0
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	103.8	103.8
a qc 100	5	<input checked="" type="checkbox"/>	100	101.4	101.4
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	252.8	101.1
a QC 250	6	<input checked="" type="checkbox"/>	250	270.2	108.1
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	493.6	98.7
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1000.5	100.0
a qc 1000	8	<input checked="" type="checkbox"/>	1000	973.5	97.3

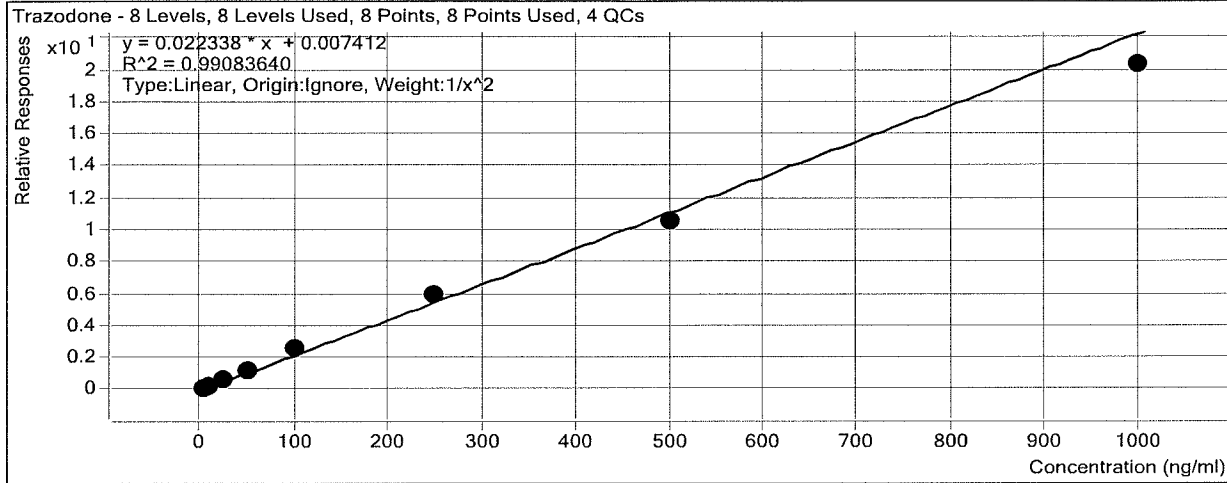
ISP Forensics Calibration Curve Report

Batch Data Path
Last Calib Update

D:\2018 Data\112918 mdq\QuantResults\mdq p1a.batch.bin
12/3/2018 9:57 AM

Analyst Name ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.2	105.0
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	8.8	87.9
a QC 10	2	<input checked="" type="checkbox"/>	10	9.7	96.6
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	25.4	101.8
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	50.4	100.7
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	112.4	112.4
a qc 100	5	<input checked="" type="checkbox"/>	100	105.3	105.3
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	267.0	106.8
a QC 250	6	<input checked="" type="checkbox"/>	250	262.4	105.0
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	473.2	94.6
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	908.2	90.8
a qc 1000	8	<input checked="" type="checkbox"/>	1000	766.9	76.7

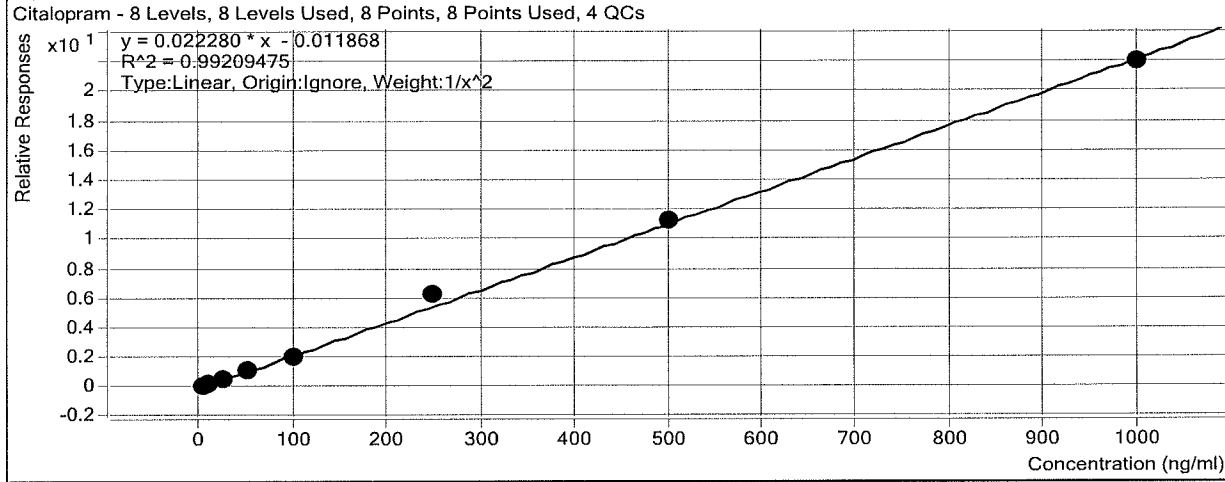
ISP Forensics Calibration Curve Report

Batch Data Path
Last Calib Update

D:\2018 Data\112918 mdq\QuantResults\mdq p1a.batch.bin
12/3/2018 9:57 AM

Analyst Name ISP TOX

Target Compound *Citalopram*
Internal Standard *Citalopram-D6*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.3	106.1
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	8.8	87.5
a QC 10	2	<input checked="" type="checkbox"/>	10	10.5	104.6
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	25.5	102.1
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	48.8	97.6
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	93.5	93.5
a qc 100	5	<input checked="" type="checkbox"/>	100	101.0	101.0
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	282.7	113.1
a QC 250	6	<input checked="" type="checkbox"/>	250	228.3	91.3
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	507.1	101.4
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	986.9	98.7
a qc 1000	8	<input checked="" type="checkbox"/>	1000	960.0	96.0

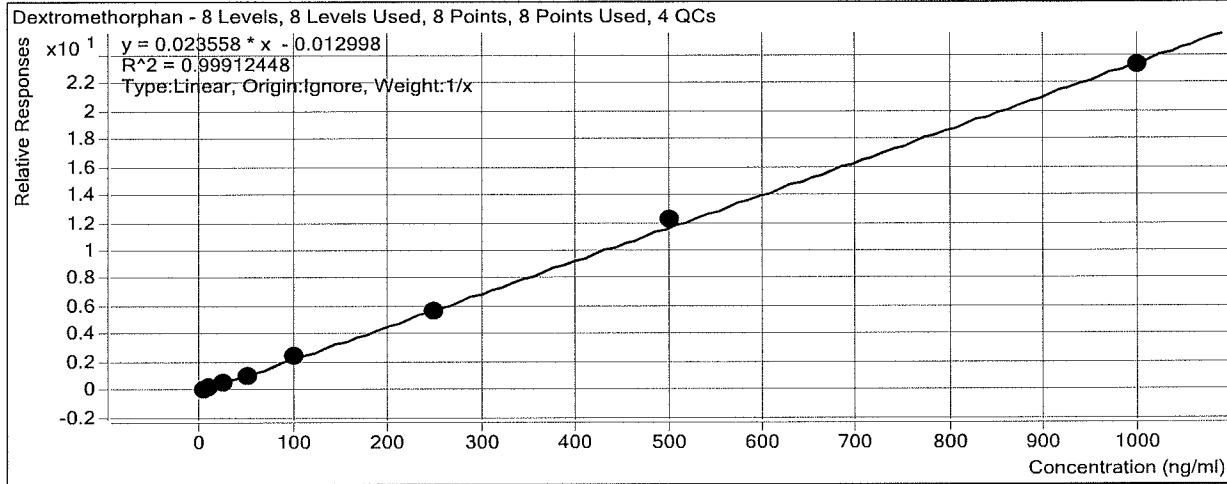
ISP Forensics Calibration Curve Report

Batch Data Path
Last Calib Update

D:\2018 Data\112918 mdq\QuantResults\mdq p1a.batch.bin
12/3/2018 9:57 AM

Analyst Name ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.6	112.0
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.5	94.5
a QC 10	2	<input checked="" type="checkbox"/>	10	11.1	110.6
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	23.9	95.5
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	47.0	94.1
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	104.1	104.1
a qc 100	5	<input checked="" type="checkbox"/>	100	100.8	100.8
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	243.0	97.2
a QC 250	6	<input checked="" type="checkbox"/>	250	234.9	94.0
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	518.9	103.8
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	988.0	98.8
a qc 1000	8	<input checked="" type="checkbox"/>	1000	1014.3	101.4

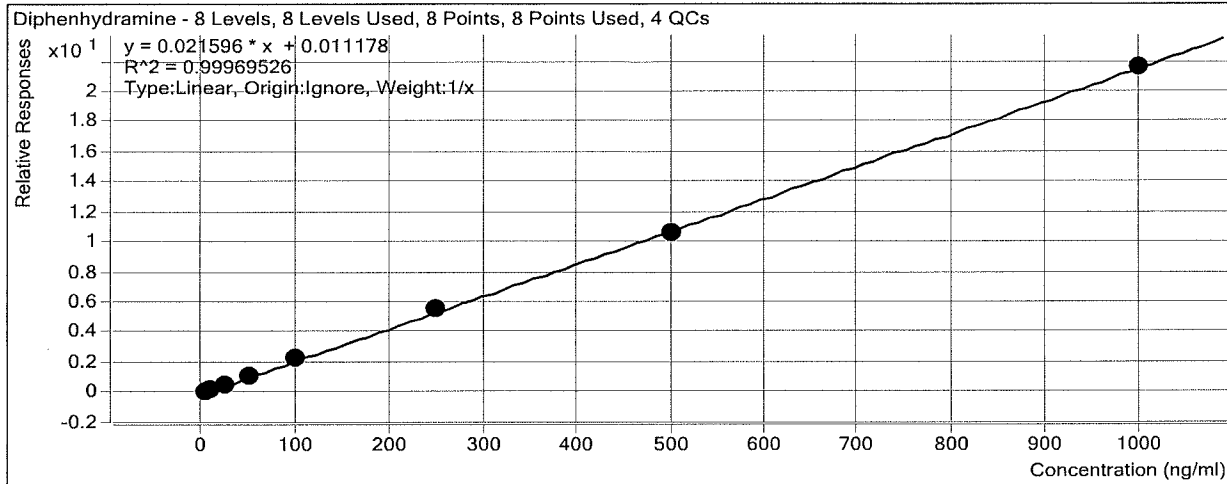
ISP Forensics Calibration Curve Report

Batch Data Path
Last Calib Update

D:\2018 Data\112918 mdq\QuantResults\mdq p1a.batch.bin
12/3/2018 9:57 AM

Analyst Name ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	4.7	94.9
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.7	96.8
a QC 10	2	<input checked="" type="checkbox"/>	10	9.9	98.8
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	26.0	103.9
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	50.7	101.4
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	102.1	102.1
a qc 100	5	<input checked="" type="checkbox"/>	100	109.8	109.8
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	257.6	103.1
a QC 250	6	<input checked="" type="checkbox"/>	250	266.1	106.5
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	490.2	98.0
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	999.0	99.9
a qc 1000	8	<input checked="" type="checkbox"/>	1000	983.4	98.3

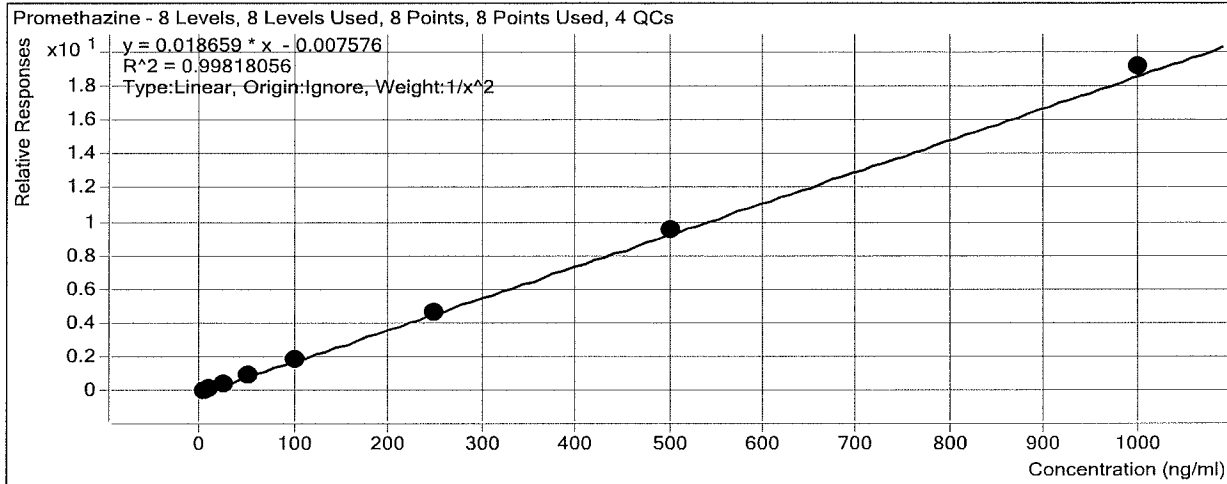
ISP Forensics Calibration Curve Report

Batch Data Path
Last Calib Update

D:\2018 Data\112918 mdq\QuantResults\mdq p1a.batch.bin
12/3/2018 9:57 AM

Analyst Name ISP TOX

Target Compound *Promethazine*
Internal Standard *Promethazine-D3*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.2	103.8
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.4	93.8
a QC 10	2	<input checked="" type="checkbox"/>	10	10.4	104.2
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	24.3	97.2
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	48.4	96.8
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	103.1	103.1
a qc 100	5	<input checked="" type="checkbox"/>	100	106.0	106.0
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	249.7	99.9
a QC 250	6	<input checked="" type="checkbox"/>	250	254.4	101.8
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	515.1	103.0
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1025.1	102.5
a qc 1000	8	<input checked="" type="checkbox"/>	1000	958.3	95.8

ISP Forensics Calibration Curve Report

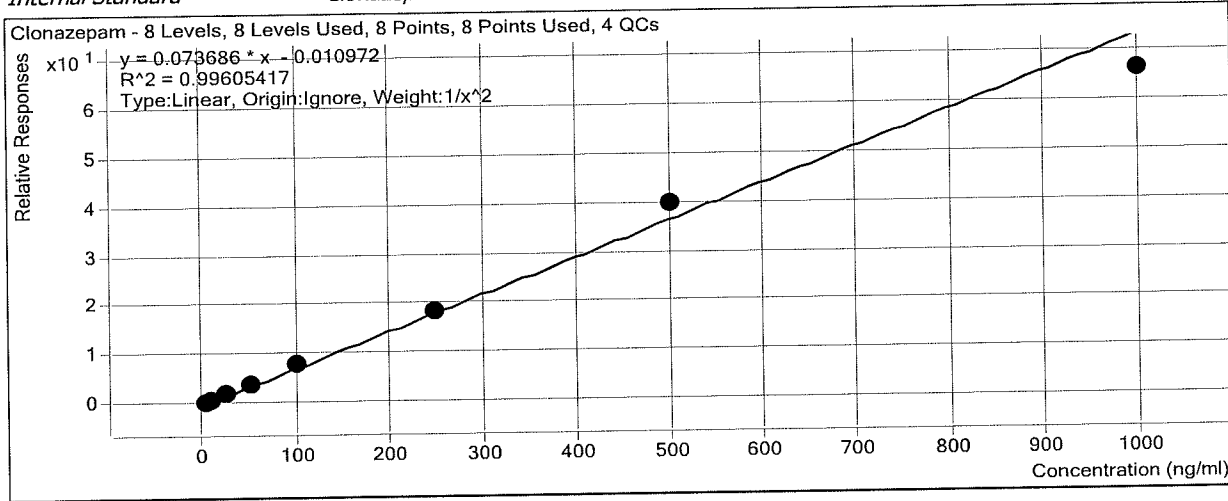
Batch Data Path
Last Calib Update

D:\2018 Data\112918 mdq\QuantResults\mdq p1a.batch.bin
12/3/2018 9:57 AM

Analyst Name

ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.0	99.7
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.2	101.6
a QC 10	2	<input checked="" type="checkbox"/>	10	10.8	107.5
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	24.1	96.3
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	49.7	99.4
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	104.9	104.9
a qc 100	5	<input checked="" type="checkbox"/>	100	110.6	110.6
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	251.4	100.5
a QC 250	6	<input checked="" type="checkbox"/>	250	283.8	113.5
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	539.3	107.9
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	896.9	89.7
a qc 1000	8	<input checked="" type="checkbox"/>	1000	991.1	99.1

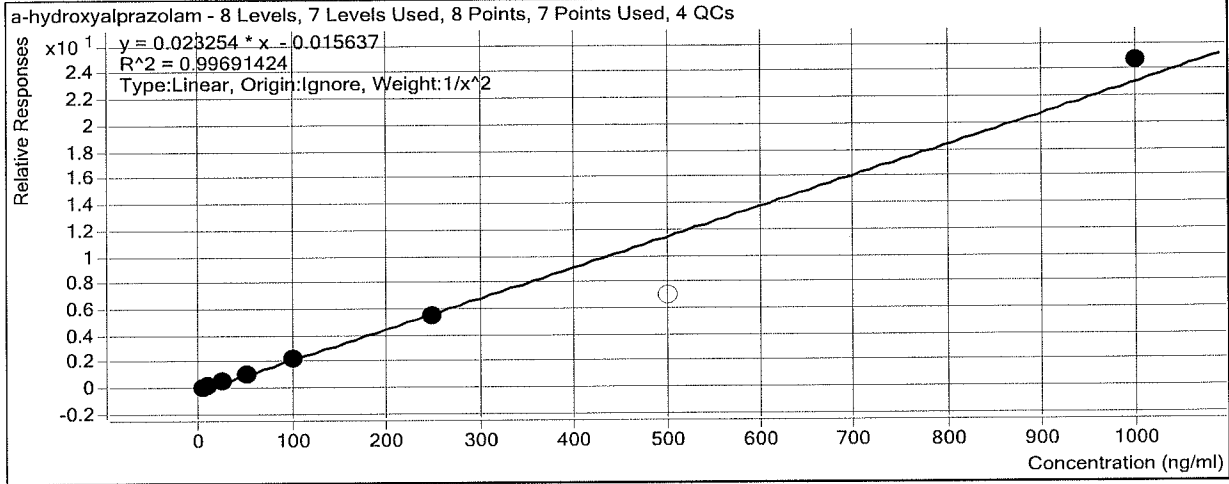
ISP Forensics Calibration Curve Report

Batch Data Path
Last Calib Update

D:\2018 Data\112918 mdq\QuantResults\mdq p1a.batch.bin
12/3/2018 9:57 AM

Analyst Name ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.1	101.6
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.5	95.2
a QC 10	2	<input checked="" type="checkbox"/>	10	10.8	108.4
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	26.4	105.4
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	49.2	98.4
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	99.3	99.3
a qc 100	5	<input checked="" type="checkbox"/>	100	57.4	57.4
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	234.8	93.9
a QC 250	6	<input checked="" type="checkbox"/>	250	266.5	106.6
a cal 7-500ng	7	<input type="checkbox"/>	500	303.2	60.6
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1061.8	106.2
a qc 1000	8	<input checked="" type="checkbox"/>	1000	528.1	52.8

Dropped 500 ng calibrator primary transition
peak cut off ~~AS~~

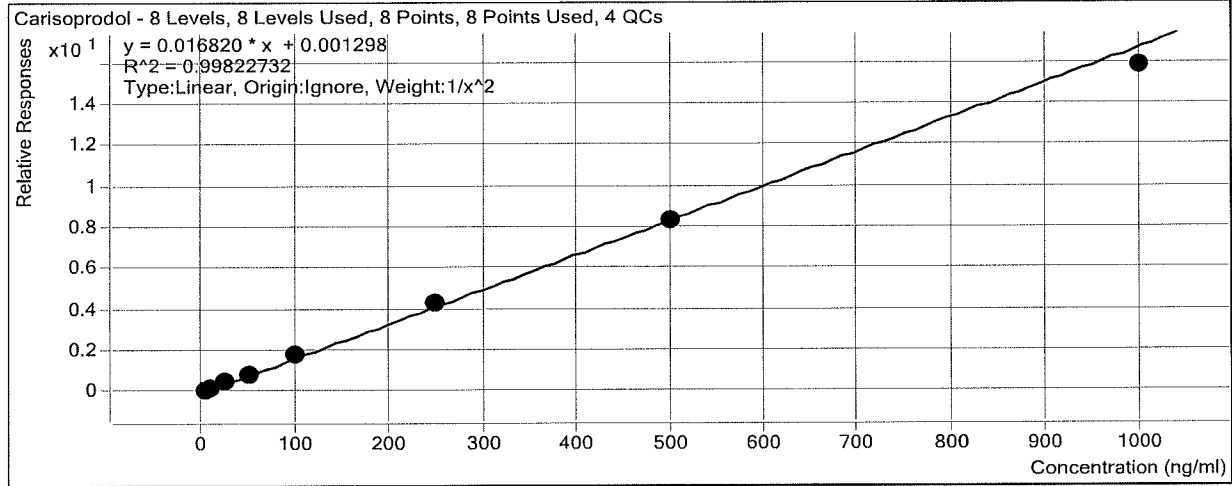
ISP Forensics Calibration Curve Report

Batch Data Path
Last Calib Update

D:\2018 Data\112918 mdq\QuantResults\mdq p1a.batch.bin
12/3/2018 9:57 AM

Analyst Name ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.0	100.0
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.9	98.8
a QC 10	2	<input checked="" type="checkbox"/>	10	10.0	99.5
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	25.9	103.6
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	48.2	96.4
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	105.1	105.1
a qc 100	5	<input checked="" type="checkbox"/>	100	106.1	106.1
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	256.0	102.4
a QC 250	6	<input checked="" type="checkbox"/>	250	263.2	105.3
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	498.4	99.7
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	941.0	94.1
a qc 1000	8	<input checked="" type="checkbox"/>	1000	967.4	96.7

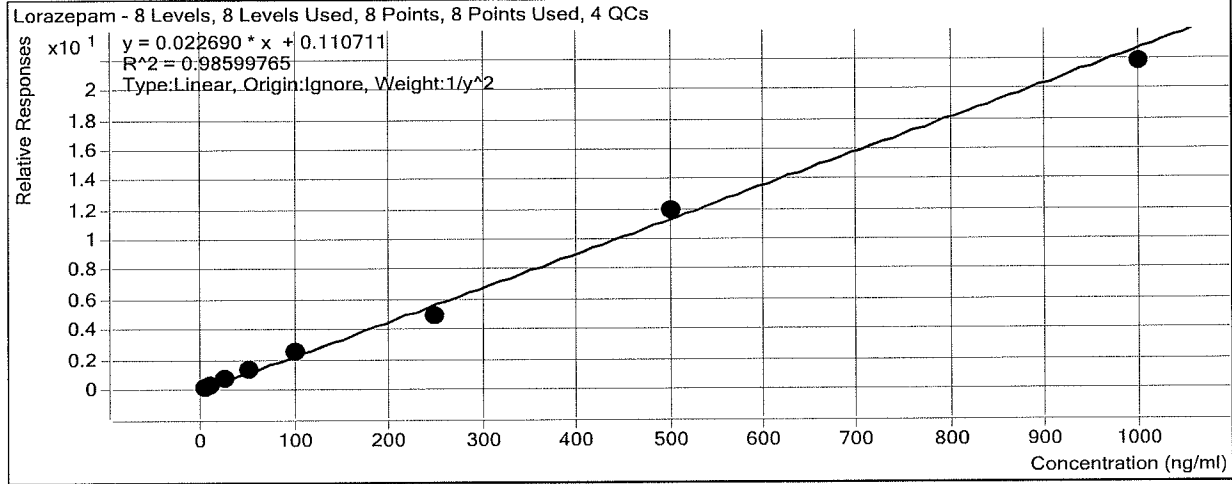
ISP Forensics Calibration Curve Report

Batch Data Path
Last Calib Update

D:\2018 Data\112918 mdq\QuantResults\mdq p1a.batch.bin
12/3/2018 9:57 AM

Analyst Name ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	4.3	85.5
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	11.2	112.2
a QC 10	2	<input checked="" type="checkbox"/>	10	14.3	142.6
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	27.9	111.5
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	54.7	109.4
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	109.4	109.4
a qc 100	5	<input checked="" type="checkbox"/>	100	106.2	106.2
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	212.4	84.9
a QC 250	6	<input checked="" type="checkbox"/>	250	263.0	105.2
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	522.3	104.5
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	954.2	95.4
a qc 1000	8	<input checked="" type="checkbox"/>	1000	1123.7	112.4

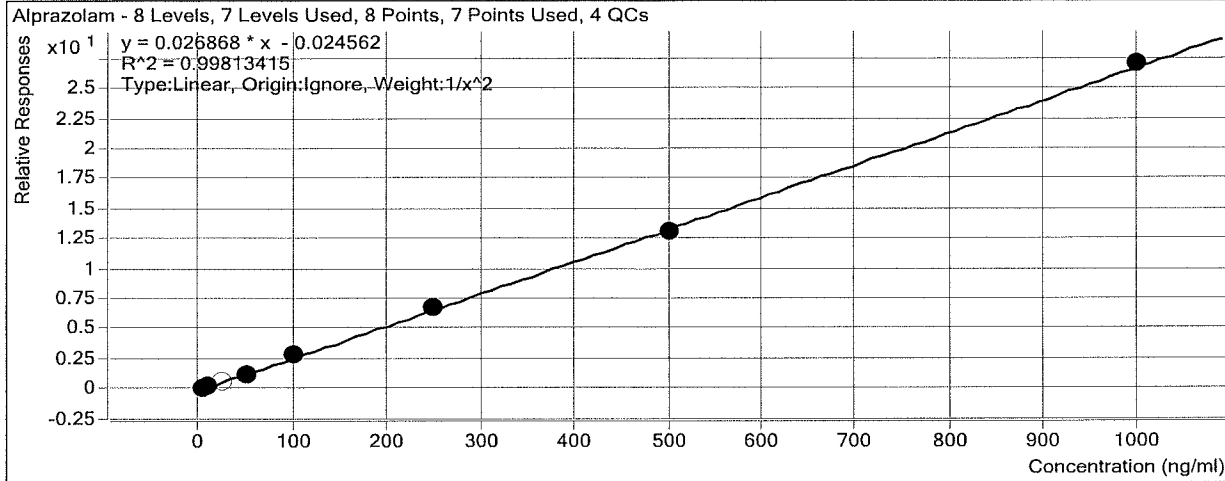
ISP Forensics Calibration Curve Report

Batch Data Path
Last Calib Update

D:\2018 Data\112918 mdq\QuantResults\mdq p1a.batch.bin
12/3/2018 9:57 AM

Analyst Name ISP TOX

Target Compound Alprazolam
Internal Standard Alprazolam-D5



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.0	100.3
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.0	100.0
a QC 10	2	<input checked="" type="checkbox"/>	10	10.7	106.9
a cal 3-25ng	3	<input type="checkbox"/>	25	24.1	96.3
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	46.9	93.8
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	106.6	106.6
a qc 100	5	<input checked="" type="checkbox"/>	100	100.3	100.3
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	252.1	100.9
a QC 250	6	<input checked="" type="checkbox"/>	250	262.0	104.8
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	488.8	97.8
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1006.8	100.7
a qc 1000	8	<input checked="" type="checkbox"/>	1000	972.9	97.3

Dropped 25 ng calibrator secondary transition peak cut off.

ISP FORENSICS - Cd'A Instrument # 62340

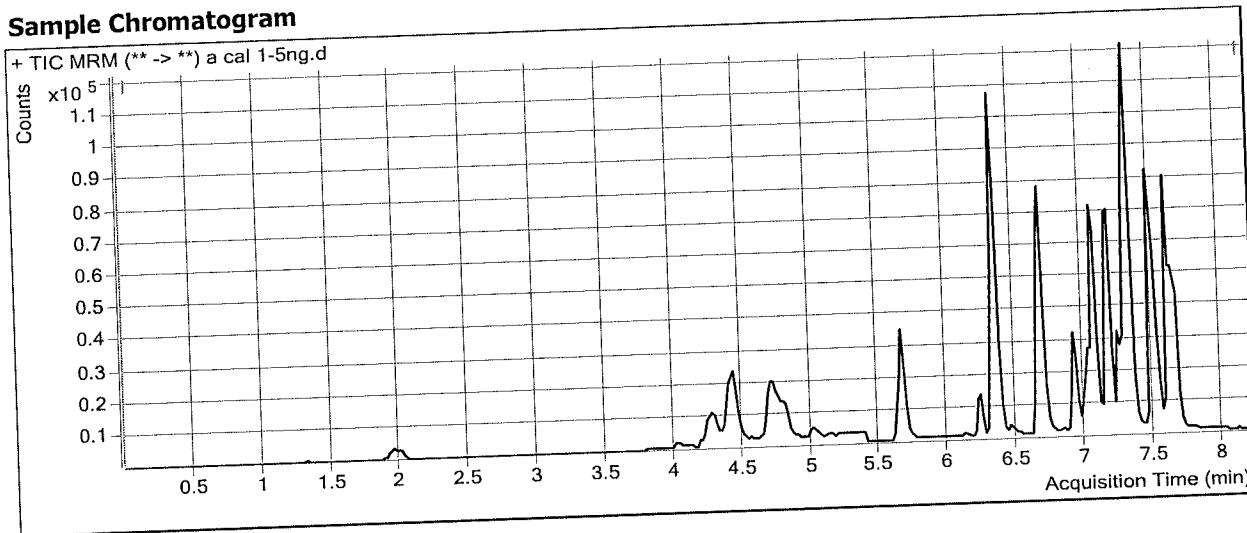
Multi-Drug Confirmatory Analysis Report

Batch Data Path	D:\2018 Data\112918 mdq\QuantResults\mdq p1a.batch.bin	Analyst Name	ISP Tox
Analysis Time	12/3/2018 9:57 AM	Reporter Name	ISP Tox
Report Time	12/3/2018 9:59 AM	Batch State	Processed
Last Calib Update	12/3/2018 9:57 AM		

Analysis Info

Acq Time	2018-11-29 13:28	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



Results Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.328	940	1045	0.8992	8.8317
Hydromorphone	Hydromorphone-D6	2.009	2476	16243	0.1524	5.1545
Codeine	Codeine-D6	4.115	1112	8005	0.1389	6.3511
Amphetamine	Amphetamine-D11	4.423	36447	39176	0.9304	4.6907
Oxycodone	Oxycodone-D6	4.489	5790	49218	0.1176	4.9694
Methamphetamine	Methamphetamine-D11	4.821	15276	61180	0.2497	6.8885
Hydrocodone	Hydrocodone-D6	4.794	3411	37204	0.0917	4.3858
Norhydrocodone	Norhydrocodone-D3	4.838	148	13883	0.0107	17.7313
6-MAM	6-MAM-D6	5.028	113	8720	0.0129	0.6499
Phentermine	Phentermine-D5	5.706	4320	108903	0.0397	3.4371
Dextrorphan	Dextrorphan-D3	6.247	2568	36539	0.0703	5.2796
7-aminoclonazepam	7-Aminoclonazepam-D4	6.352	7259	51426	0.1412	5.0561
Tramadol	Tramadol-13C-D3	6.361	26882	235832	0.1140	4.8983
Metoprolol	Oxycodone-D6	6.457	3421	49218	0.0695	5.1001
Doxylamine	Doxylamine-D5	6.702	22309	212748	0.1049	5.1566
Bupropion	Bupropion-D9	6.951	10599	79650	0.1331	5.2010
Meprobamate	Meprobamate-D7	7.053	4356	53886	0.0808	5.1199
Zolpidem	Zolpidem-D6	7.082	19514	191812	0.1017	4.5735
Venlafaxine	Venlafaxine-D6	7.185	21846	182877	0.1195	5.0091
Trazodone	Trazodone-D6	7.276	10184	81698	0.1247	5.2486
Citalopram	Citalopram-D6	7.298	10397	97769	0.1063	5.3057
Dextromethorphan	Dextromethorphan-D3	7.329	2496	20975	0.1190	5.6025
Diphenhydramine	Diphenhydramine-D3	7.332	20223	177914	0.1137	4.7457



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

acal

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Promethazine	Promethazine-D3	7.487	15333	171755	0.0893	5.1902
Clonazepam	Clonazepam-D4	7.543	6978	19573	0.3565	4.9870
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.601	1608	15693	0.1025	5.0801
Carisoprodol	Carisoprodol-D7	7.635	11694	136976	0.0854	4.9982
Lorazepam	Clonazepam-D4	7.643	4065	19573	0.2077	4.2737
Alprazolam	Alprazolam-D5	7.667	9189	83410	0.1102	5.0145

ISP FORENSICS - Cd'A Instrument # 62340

Multi-Drug Confirmatory Analysis Report

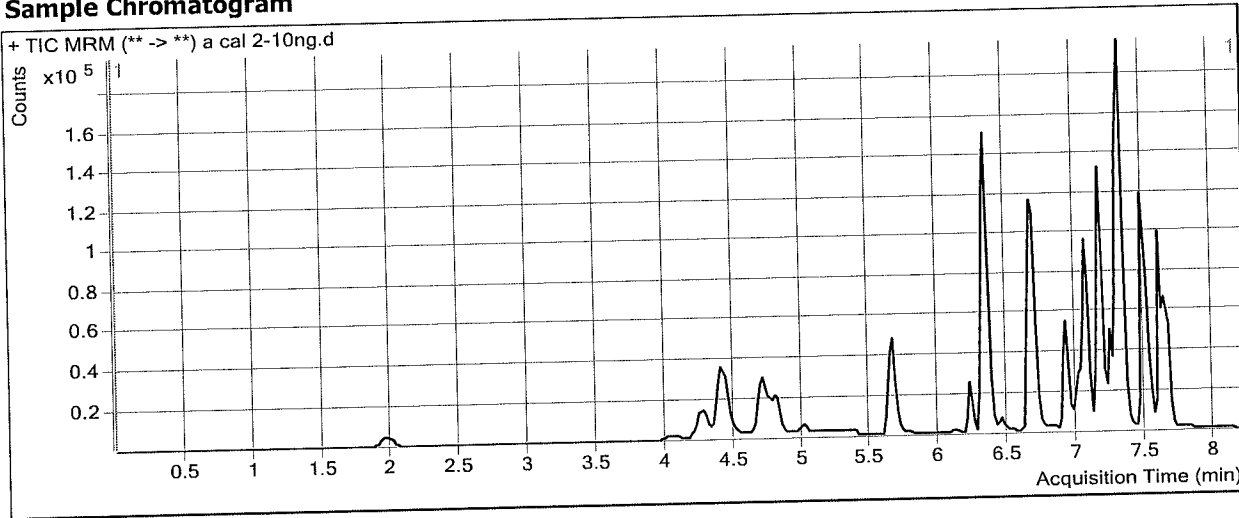
a cal 2

Batch Data Path D:\2018 Data\112918 mdq\QuantResults\mdq p1a.batch.bin
Analysis Time 12/3/2018 9:57 AM **Analyst Name** ISP Tox
Report Time 12/3/2018 9:59 AM **Reporter Name** ISP Tox
Last Calib Update 12/3/2018 9:57 AM **Batch State** Processed

Analysis Info

Acq Time 2018-11-29 13:40 **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	1.328	1283	1221	1.0509	10.1405
Hydromorphone	Hydromorphone-D6	1.989	5303	18464	0.2872	9.4857
Codeine	Codeine-D6	4.076	2317	9169	0.2527	10.0930
Amphetamine	Amphetamine-D11	4.423	63219	56965	1.1098	7.0236
Oxycodone	Oxycodone-D6	4.489	12702	60346	0.2105	9.1805
Methamphetamine	Methamphetamine-D11	4.821	31513	95440	0.3302	9.7547
Hydrocodone	Hydrocodone-D6	4.774	7858	47277	0.1662	8.6440
Norhydrocodone	Norhydrocodone-D3	4.838	542	16954	0.0320	21.6794
6-MAM	6-MAM-D6	5.028	304	11942	0.0255	1.0628
Phentermine	Phentermine-D5	5.706	11018	165809	0.0664	7.6134
Dextrorphan	Dextrorphan-D3	6.224	6728	54022	0.1245	9.0466
7-aminoclonazepam	7-Aminoclonazepam-D4	6.352	13602	55360	0.2457	9.2654
Tramadol	Tramadol-13C-D3	6.341	71184	334139	0.2130	9.7642
Metoprolol	Oxycodone-D6	6.457	7974	60346	0.1321	9.1237
Doxylamine	Doxylamine-D5	6.682	59331	311842	0.1903	9.2040
Bupropion	Bupropion-D9	6.951	29988	130441	0.2299	9.0809
Meprobamate	Meprobamate-D7	7.033	8718	59238	0.1472	9.2908
Zolpidem	Zolpidem-D6	7.082	43165	236197	0.1827	8.9563
Venlafaxine	Venlafaxine-D6	7.165	59834	269475	0.2220	9.4678
Trazodone	Trazodone-D6	7.276	24831	121884	0.2037	8.7884
Citalopram	Citalopram-D6	7.298	26387	144076	0.1831	8.7529
Dextromethorphan	Dextromethorphan-D3	7.309	6213	29639	0.2096	9.4501
Diphenhydramine	Diphenhydramine-D3	7.332	58813	267169	0.2201	9.6758

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

a cal 2

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Promethazine	Promethazine-D3	7.487	37802	225804	0.1674	9.3780
Clonazepam	Clonazepam-D4	7.543	13905	18858	0.7374	10.1560
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.601	3464	16834	0.2057	9.5204
Carisoprodol	Carisoprodol-D7	7.612	24612	146918	0.1675	9.8825
Lorazepam	Clonazepam-D4	7.643	6889	18858	0.3653	11.2215
Alprazolam	Alprazolam-D5	7.667	21603	88486	0.2441	10.0005

ISP FORENSICS - Cd'A Instrument # 62340

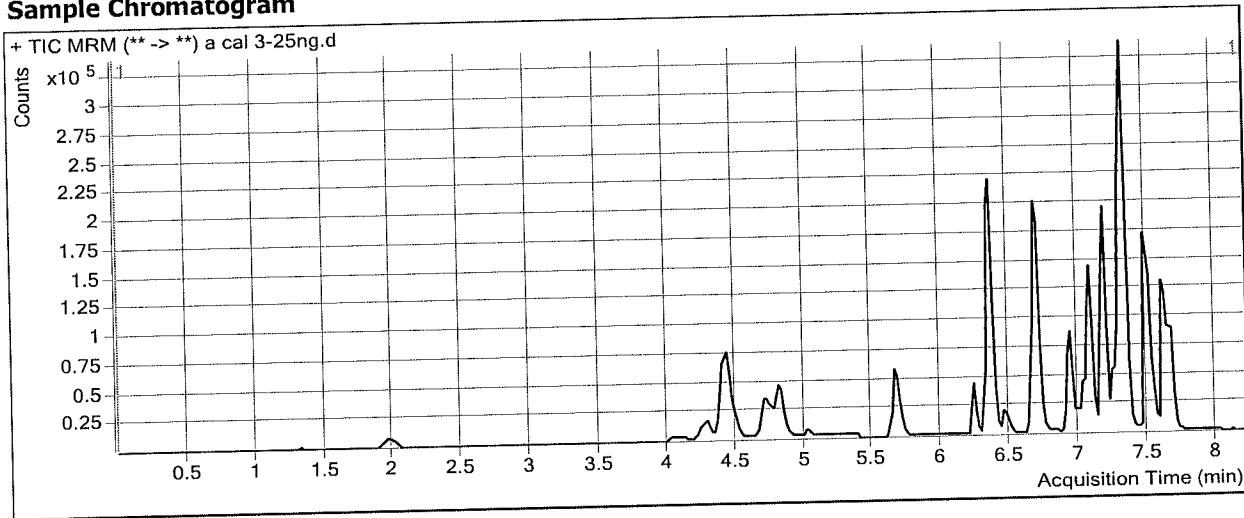
Multi-Drug Confirmatory Analysis Report

Batch Data Path	D:\2018 Data\112918 mdq\QuantResults\mdq p1a.batch.bin	Analyst Name	ISP Tox
Analysis Time	12/3/2018 9:57 AM	Reporter Name	ISP Tox
Report Time	12/3/2018 9:59 AM	Batch State	Processed
Last Calib Update	12/3/2018 9:57 AM		

Analysis Info

Acq Time	2018-11-29 13:53	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	1.328	3161	1130	2.7976	25.2085
Hydromorphone	Hydromorphone-D6	1.989	14786	19570	0.7555	24.5309
Codeine	Codeine-D6	4.115	7214	10935	0.6598	23.4796
Amphetamine	Amphetamine-D11	4.443	171706	69342	2.4762	24.7883
Oxycodone	Oxycodone-D6	4.489	39144	69203	0.5656	25.2867
Methamphetamine	Methamphetamine-D11	4.841	91147	117200	0.7777	25.6894
Hydrocodone	Hydrocodone-D6	4.794	25981	53968	0.4814	26.6536
Norhydrocodone	Norhydrocodone-D3	4.838	1713	19589	0.0874	31.9651
6-MAM	6-MAM-D6	5.048	1010	13531	0.0746	2.6822
Phentermine	Phentermine-D5	5.726	33504	193976	0.1727	24.1845
Dextroprphan	Dextroprphan-D3	6.247	22438	66654	0.3366	23.7707
7-aminoclonazepam	7-Aminoclonazepam-D4	6.352	42226	61936	0.6818	26.8236
Tramadol	Tramadol-13C-D3	6.361	226999	396248	0.5729	27.4417
Metoprolol	Oxycodone-D6	6.457	28036	69203	0.4051	26.6606
Doxylamine	Doxylamine-D5	6.702	202633	381731	0.5308	25.3450
Bupropion	Bupropion-D9	6.951	96920	149919	0.6465	25.7720
Meprobamate	Meprobamate-D7	7.053	26098	61345	0.4254	26.7880
Zolpidem	Zolpidem-D6	7.082	132473	276417	0.4793	24.9969
Venlafaxine	Venlafaxine-D6	7.185	194055	323750	0.5994	25.8695
Trazodone	Trazodone-D6	7.276	85912	149194	0.5758	25.4464
Citalopram	Citalopram-D6	7.298	91572	164464	0.5568	25.5239
Dextromethorphan	Dextromethorphan-D3	7.309	21450	39049	0.5493	23.8684
Diphenhydramine	Diphenhydramine-D3	7.332	184473	322530	0.5720	25.9669

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

acal 3

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Promethazine	Promethazine-D3	7.487	123792	277758	0.4457	24.2911
Clonazepam	Clonazepam-D4	7.543	36527	20725	1.7624	24.0668
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.601	10093	16898	0.5973	26.3572
Carisoprodol	Carisoprodol-D7	7.635	70877	162249	0.4368	25.8942
Lorazepam	Clonazepam-D4	7.643	15402	20725	0.7432	27.8736
Alprazolam	Alprazolam-D5	7.667	59780	96114	0.6220	24.0628



ISP FORENSICS - Cd'A Instrument # 62340

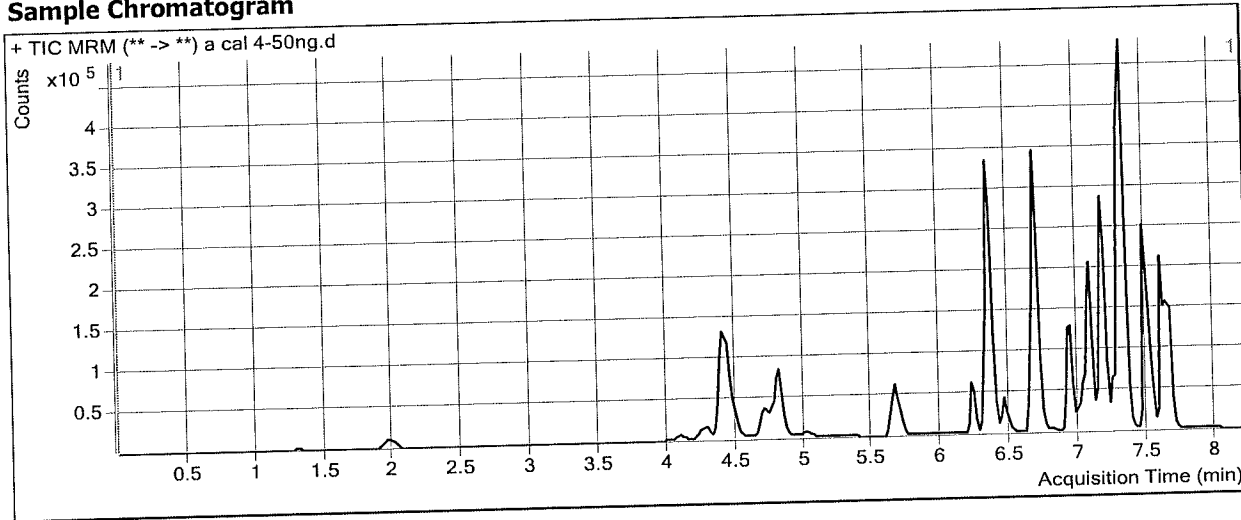
Multi-Drug Confirmatory Analysis Report

Batch Data Path	D:\2018 Data\112918 mdq\QuantResults\mdq p1a.batch.bin	Analyst Name	ISP Tox
Analysis Time	12/3/2018 9:57 AM	Reporter Name	ISP Tox
Report Time	12/3/2018 9:59 AM	Batch State	Processed
Last Calib Update	12/3/2018 9:57 AM		

Analysis Info

Acq Time	2018-11-29 14:05	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



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.328	6609	1306	5.0614	44.7361
Hydromorphone	Hydromorphone-D6	1.989	29750	20215	1.4717	47.5406
Codeine	Codeine-D6	4.095	14575	11575	1.2592	43.1912
Amphetamine	Amphetamine-D11	4.423	333569	67333	4.9540	57.0020
Oxycodone	Oxycodone-D6	4.489	77685	73151	1.0620	47.7963
Methamphetamine	Methamphetamine-D11	4.821	179882	120139	1.4973	51.3114
Hydrocodone	Hydrocodone-D6	4.794	52748	57428	0.9185	51.6265
Norhydrocodone	Norhydrocodone-D3	4.838	3676	20703	0.1776	48.6815
6-MAM	6-MAM-D6	5.028	1826	14441	0.1265	4.3901
Phentermine	Phentermine-D5	5.706	68740	203003	0.3386	50.0531
Dextrorphan	Dextrorphan-D3	6.224	48250	69246	0.6968	48.7721
7-aminoclonazepam	7-Aminoclonazepam-D4	6.352	82551	62578	1.3192	52.4880
Tramadol	Tramadol-13C-D3	6.361	466559	418276	1.1154	54.0958
Metoprolol	Oxycodone-D6	6.457	58576	73151	0.8007	52.0747
Doxylamine	Doxylamine-D5	6.682	434860	398008	1.0926	51.9694
Bupropion	Bupropion-D9	6.951	195484	164304	1.1898	47.5393
Meprobamate	Meprobamate-D7	7.033	46453	60011	0.7741	48.7106
Zolpidem	Zolpidem-D6	7.082	281180	284494	0.9884	52.5387
Venlafaxine	Venlafaxine-D6	7.165	385728	340795	1.1318	49.0122
Trazodone	Trazodone-D6	7.276	176438	155781	1.1326	50.3704
Citalopram	Citalopram-D6	7.298	193245	179759	1.0750	48.7841
Dextromethorphan	Dextromethorphan-D3	7.309	42389	38717	1.0948	47.0261
Diphenhydramine	Diphenhydramine-D3	7.332	352093	318322	1.1061	50.7001

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

a cal 4

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Promethazine	Promethazine-D3	7.487	240323	268339	0.8956	48.4029
Clonazepam	Clonazepam-D4	7.523	69568	19044	3.6530	49.7247
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.601	18917	16768	1.1282	49.1880
Carisoprodol	Carisoprodol-D7	7.612	132373	163045	0.8119	48.1912
Lorazepam	Clonazepam-D4	7.643	25748	19044	1.3520	54.7069
Alprazolam	Alprazolam-D5	7.667	119481	96719	1.2353	46.8915



ISP FORENSICS - Cd'A Instrument # 62340

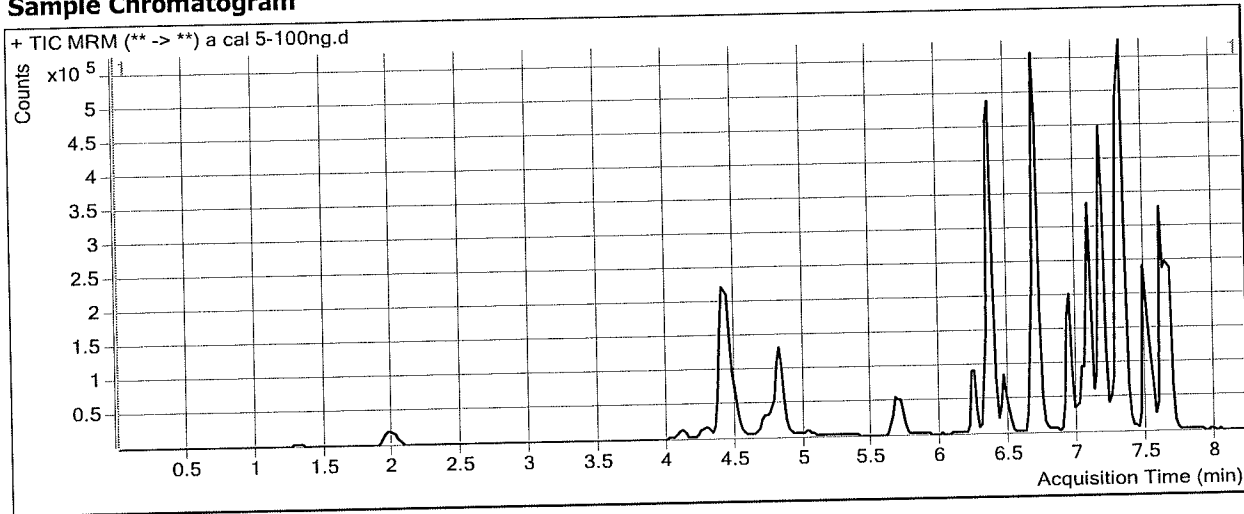
Multi-Drug Confirmatory Analysis Report

Batch Data Path	D:\2018 Data\112918 mdq\QuantResults\mdq p1a.batch.bin	Analyst Name	ISP Tox
Analysis Time	12/3/2018 9:57 AM	Reporter Name	ISP Tox
Report Time	12/3/2018 9:59 AM	Batch State	Processed
Last Calib Update	12/3/2018 9:57 AM		

Analysis Info

Acq Time	2018-11-29 14:18	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



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.328	12668	1069	11.8531	103.3233
Hydromorphone	Hydromorphone-D6	1.989	59152	17875	3.3092	106.5741
Codeine	Codeine-D6	4.115	29505	10462	2.8202	94.5223
Amphetamine	Amphetamine-D11	4.423	600246	61456	9.7671	119.5772
Oxycodone	Oxycodone-D6	4.489	159787	66432	2.4053	108.7162
Methamphetamine	Methamphetamine-D11	4.821	276729	88836	3.1151	108.9151
Hydrocodone	Hydrocodone-D6	4.794	105874	54987	1.9254	109.1550
Norhydrocodone	Norhydrocodone-D3	4.838	7491	19352	0.3871	87.5459
6-MAM	6-MAM-D6	5.028	4017	12955	0.3101	10.4385
Phentermine	Phentermine-D5	5.706	129182	174829	0.7389	112.4716
Dextroprphan	Dextroprphan-D3	6.224	97137	63528	1.5290	106.5465
7-aminoclonazepam	7-Aminoclonazepam-D4	6.352	162234	57580	2.8175	112.8186
Tramadol	Tramadol-13C-D3	6.361	930067	406291	2.2892	111.7572
Metoprolol	Oxycodone-D6	6.457	117066	66432	1.7622	113.8373
Doxylamine	Doxylamine-D5	6.682	840943	380745	2.2087	104.8654
Bupropion	Bupropion-D9	6.951	350316	130331	2.6879	107.5644
Meprobamate	Meprobamate-D7	7.033	91237	56477	1.6155	101.6180
Zolpidem	Zolpidem-D6	7.082	546871	259916	2.1040	112.8959
Venlafaxine	Venlafaxine-D6	7.165	763524	319272	2.3915	103.7605
Trazodone	Trazodone-D6	7.276	278676	110683	2.5178	112.3805
Citalopram	Citalopram-D6	7.298	267897	129328	2.0715	93.5078
Dextromethorphan	Dextromethorphan-D3	7.309	61484	25195	2.4403	104.1412
Diphenhydramine	Diphenhydramine-D3	7.332	536345	242114	2.2153	102.0604

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

a calS

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Promethazine	Promethazine-D3	7.487	301471	157399	1.9153	103.0525
Clonazepam	Clonazepam-D4	7.523	121366	15727	7.7168	104.8754
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.601	33195	14477	2.2929	99.2761
Carisoprodol	Carisoprodol-D7	7.612	255198	144298	1.7685	105.0681
Lorazepam	Clonazepam-D4	7.643	40780	15727	2.5929	109.3985
Alprazolam	Alprazolam-D5	7.667	231696	81575	2.8403	106.6253



ISP FORENSICS - Cd'A Instrument # 62340

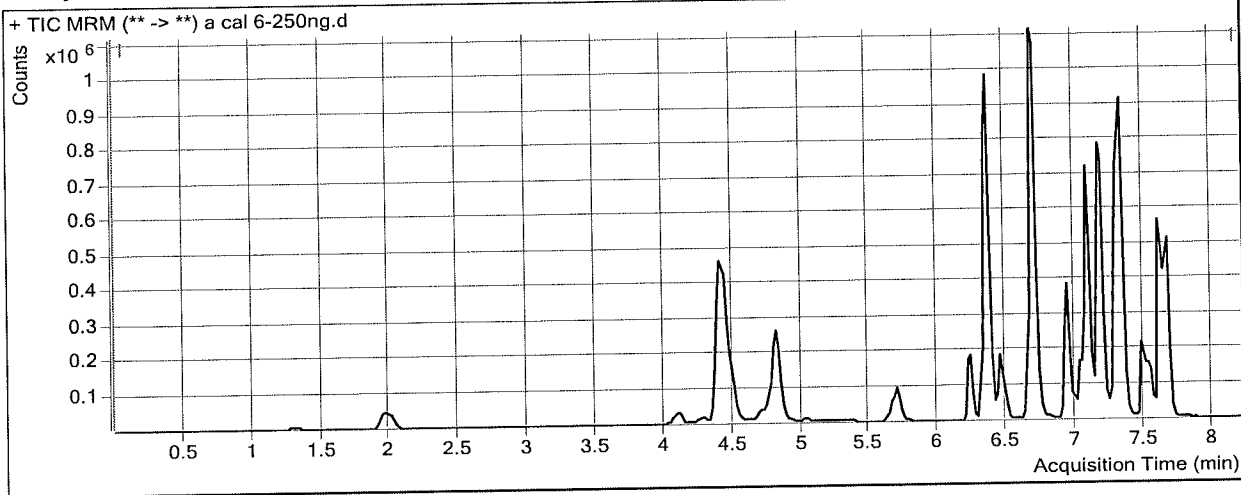
Multi-Drug Confirmatory Analysis Report

Batch Data Path D:\2018 Data\112918 mdq\QuantResults\mdq p1a.batch.bin
Analysis Time 12/3/2018 9:57 AM **Analyst Name** ISP Tox
Report Time 12/3/2018 9:59 AM **Reporter Name** ISP Tox
Last Calib Update 12/3/2018 9:57 AM **Batch State** Processed

Analysis Info

Acq Time 2018-11-29 14:31 **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



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.328	32086	1124	28.5547	247.3960
Hydromorphone	Hydromorphone-D6	1.989	152963	19587	7.8092	251.1518
Codeine	Codeine-D6	4.115	73466	10138	7.2469	240.0872
Amphetamine	Amphetamine-D11	4.423	1262407	61714	20.4557	258.5390
Oxycodone	Oxycodone-D6	4.489	376362	65872	5.7136	258.7517
Methamphetamine	Methamphetamine-D11	4.821	560070	76738	7.2984	257.8723
Hydrocodone	Hydrocodone-D6	4.794	260505	54825	4.7516	270.6248
Norhydrocodone	Norhydrocodone-D3	4.838	19879	18978	1.0475	210.0234
6-MAM	6-MAM-D6	5.028	9870	13192	0.7482	24.8699
Phentermine	Phentermine-D5	5.706	271836	160881	1.6897	260.7271
Dextroprphan	Dextroprphan-D3	6.247	216891	58718	3.6938	256.8218
7-aminoclonazepam	7-Aminoclonazepam-D4	6.352	363915	55848	6.5161	261.7402
Tramadol	Tramadol-13C-D3	6.361	2140629	415176	5.1560	252.5924
Metoprolol	Oxycodone-D6	6.457	262176	65872	3.9801	256.3158
Doxylamine	Doxylamine-D5	6.702	1981162	384326	5.1549	244.4994
Bupropion	Bupropion-D9	6.951	725327	109183	6.6432	266.0408
Meprobamate	Meprobamate-D7	7.033	215866	57652	3.7443	235.4765
Zolpidem	Zolpidem-D6	7.082	1326261	278902	4.7553	256.3265
Venlafaxine	Venlafaxine-D6	7.165	1744324	299748	5.8193	252.7504
Trazodone	Trazodone-D6	7.276	541979	90770	5.9709	266.9627
Citalopram	Citalopram-D6	7.298	533541	84870	6.2866	282.6990
Dextromethorphan	Dextromethorphan-D3	7.309	96450	16885	5.7120	243.0196
Diphenhydramine	Diphenhydramine-D3	7.332	989962	177563	5.5753	257.6464

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

a cal 6

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Promethazine	Promethazine-D3	7.487	358860	77155	4.6512	249.6725
Clonazepam	Clonazepam-D4	7.543	261096	14105	18.5115	251.3719
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.601	77769	14282	5.4452	234.8381
Carisoprodol	Carisoprodol-D7	7.635	570778	132509	4.3075	256.0146
Lorazepam	Clonazepam-D4	7.643	69526	14105	4.9294	212.3696
Alprazolam	Alprazolam-D5	7.667	519809	77007	6.7501	252.1423



ISP FORENSICS - Cd'A Instrument # 62340

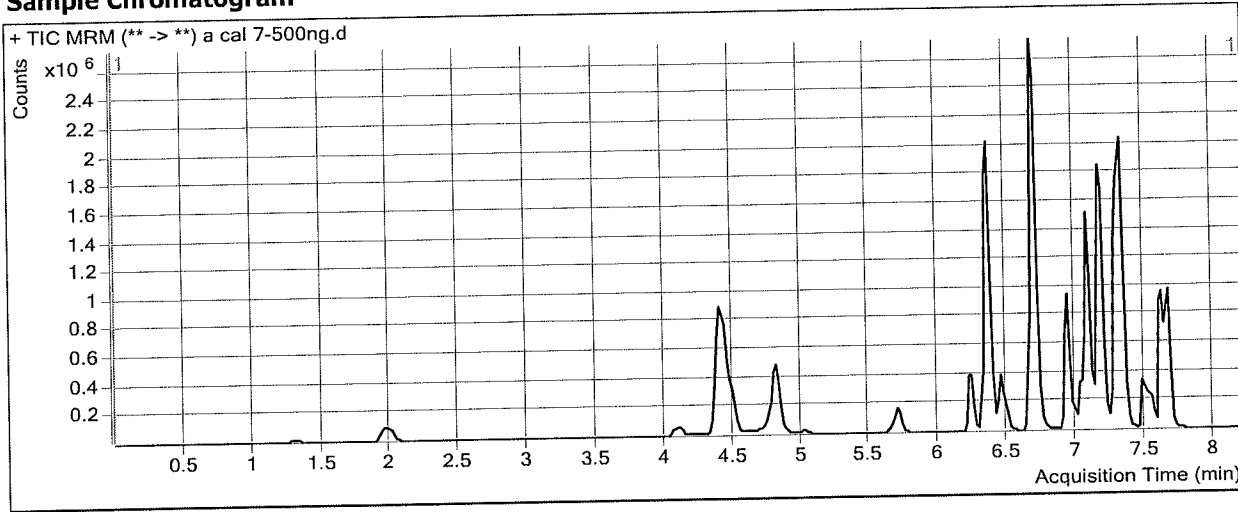
Multi-Drug Confirmatory Analysis Report

Batch Data Path D:\2018 Data\112918 mdq\QuantResults\mdq p1a.batch.bin
Analysis Time 12/3/2018 9:57 AM **Analyst Name** ISP Tox
Report Time 12/3/2018 9:59 AM **Reporter Name** ISP Tox
Last Calib Update 12/3/2018 9:57 AM **Batch State** Processed

Analysis Info

Acq Time 2018-11-29 14:43 **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



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.328	67638	1151	58.7691	508.0334
Hydromorphone	Hydromorphone-D6	1.989	337157	21635	15.5841	500.9425
Codeine	Codeine-D6	4.095	159948	10781	14.8356	489.6294
Amphetamine	Amphetamine-D11	4.423	2450824	67013	36.5723	468.0698
Oxycodone	Oxycodone-D6	4.489	857907	75758	11.3242	513.2022
Methamphetamine	Methamphetamine-D11	4.821	948196	70174	13.5122	479.1237
Hydrocodone	Hydrocodone-D6	4.794	572111	63144	9.0604	516.8040
Norhydrocodone	Norhydrocodone-D3	4.838	49519	19555	2.5323	485.4283
6-MAM	6-MAM-D6	5.028	24960	16217	1.5391	50.9267
Phentermine	Phentermine-D5	5.706	542656	168172	3.2268	500.4131
Dextroprphan	Dextroprphan-D3	6.224	514855	69804	7.3758	512.4243
7-aminoclonazepam	7-Aminoclonazepam-D4	6.352	665163	55981	11.8820	477.7913
Tramadol	Tramadol-13C-D3	6.361	5001991	529699	9.4431	463.2041
Metoprolol	Oxycodone-D6	6.457	583737	75758	7.7052	495.6171
Doxylamine	Doxylamine-D5	6.682	4984731	476732	10.4561	495.7441
Bupropion	Bupropion-D9	6.951	1853004	155274	11.9338	478.0137
Meprobamate	Meprobamate-D7	7.053	477129	61265	7.7880	489.7408
Zolpidem	Zolpidem-D6	7.082	3066567	327882	9.3526	505.0388
Venlafaxine	Venlafaxine-D6	7.165	4364007	384102	11.3616	493.6430
Trazodone	Trazodone-D6	7.276	1654149	156385	10.5774	473.1800
Citalopram	Citalopram-D6	7.298	1045389	92627	11.2860	507.0946
Dextromethorphan	Dextromethorphan-D3	7.309	223242	18283	12.2101	518.8527
Diphenhydramine	Diphenhydramine-D3	7.332	2312254	218184	10.5977	490.2112

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

a cal 7

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Promethazine	Promethazine-D3	7.487	631219	65731	9.6031	515.0539
Clonazepam	Clonazepam-D4	7.543	444421	11186	39.7297	539.3272
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.621	90008	12794	7.0351	303.2115
Carisoprodol	Carisoprodol-D7	7.635	1079816	128794	8.3841	498.3807
Lorazepam	Clonazepam-D4	7.643	133813	11186	11.9625	522.3362
Alprazolam	Alprazolam-D5	7.667	1019311	77756	13.1090	488.8107



ISP FORENSICS - Cd'A Instrument # 62340

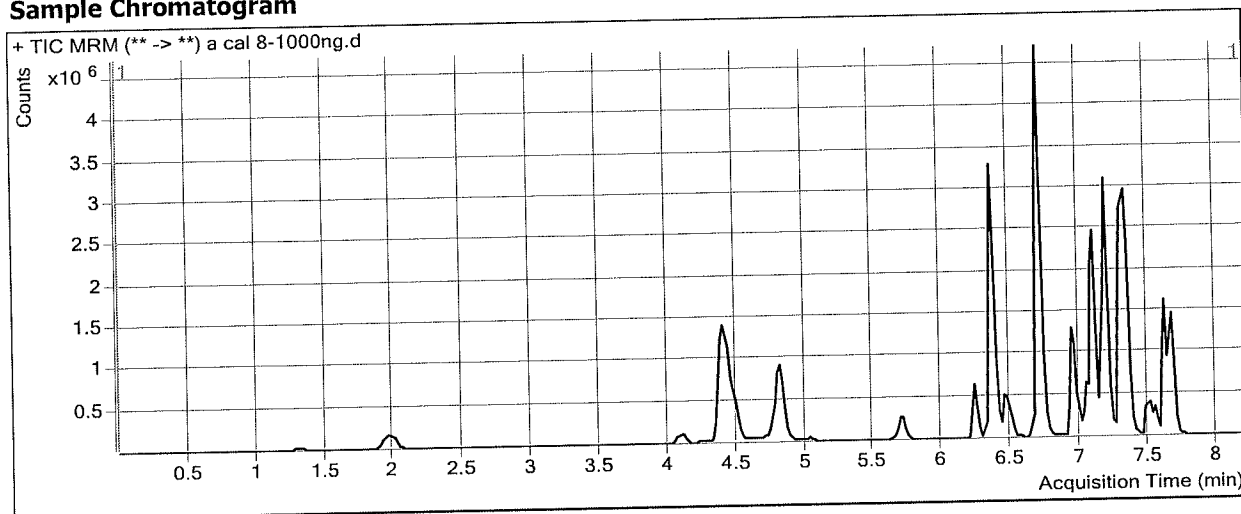
Multi-Drug Confirmatory Analysis Report

Batch Data Path D:\2018 Data\112918 mdq\QuantResults\mdq p1a.batch.bin
Analysis Time 12/3/2018 9:57 AM **Analyst Name** ISP Tox
Report Time 12/3/2018 9:59 AM **Reporter Name** ISP Tox
Last Calib Update 12/3/2018 9:57 AM **Batch State** Processed

Analysis Info

Acq Time 2018-11-29 14:56 **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



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.328	130288	1078	120.9014	1044.0030
Hydromorphone	Hydromorphone-D6	1.969	611767	19346	31.6232	1016.2428
Codeine	Codeine-D6	4.095	264723	8444	31.3489	1032.6462
Amphetamine	Amphetamine-D11	4.423	3957359	65342	60.5639	779.9845
Oxycodone	Oxycodone-D6	4.489	1477320	68895	21.4429	972.0970
Methamphetamine	Methamphetamine-D11	4.821	2106641	83919	25.1032	891.8430
Hydrocodone	Hydrocodone-D6	4.794	941019	56418	16.6794	952.1062
Norhydrocodone	Norhydrocodone-D3	4.838	82246	14589	5.6376	1061.3558
6-MAM	6-MAM-D6	5.028	45079	15005	3.0043	99.1926
Phentermine	Phentermine-D5	5.726	976135	175793	5.5528	863.1076
Dextroprphan	Dextroprphan-D3	6.247	767240	53521	14.3353	995.5508
7-aminoclonazepam	7-Aminoclonazepam-D4	6.352	932305	46376	20.1032	808.8124
Tramadol	Tramadol-13C-D3	6.361	7901603	478830	16.5019	809.9799
Metoprolol	Oxycodone-D6	6.477	862470	68895	12.5185	804.8221
Doxylamine	Doxylamine-D5	6.702	8501687	412511	20.6096	976.9652
Bupropion	Bupropion-D9	6.951	2765934	113740	24.3180	974.2050
Meprobamate	Meprobamate-D7	7.053	904695	53485	16.9150	1063.6450
Zolpidem	Zolpidem-D6	7.102	5392022	298998	18.0337	974.6735
Venlafaxine	Venlafaxine-D6	7.185	7146749	310422	23.0227	1000.4876
Trazodone	Trazodone-D6	7.296	3191076	157241	20.2941	908.1616
Citalopram	Citalopram-D6	7.298	1447593	65875	21.9749	986.8566
Dextromethorphan	Dextromethorphan-D3	7.329	305970	13153	23.2631	988.0395
Diphenhydramine	Diphenhydramine-D3	7.352	3511066	162660	21.5853	998.9935

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

a cal 8

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Promethazine	Promethazine-D3	7.507	824403	43115	19.1209	1025.1352
Clonazepam	Clonazepam-D4	7.543	608569	9209	66.0806	896.9392
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.601	248822	10084	24.6748	1061.7861
Carisoprodol	Carisoprodol-D7	7.635	1614306	101984	15.8291	941.0064
Lorazepam	Clonazepam-D4	7.643	200402	9209	21.7603	954.1541
Alprazolam	Alprazolam-D5	7.667	1552304	57437	27.0260	1006.7782



ISP FORENSICS - Cd'A Instrument # 62340

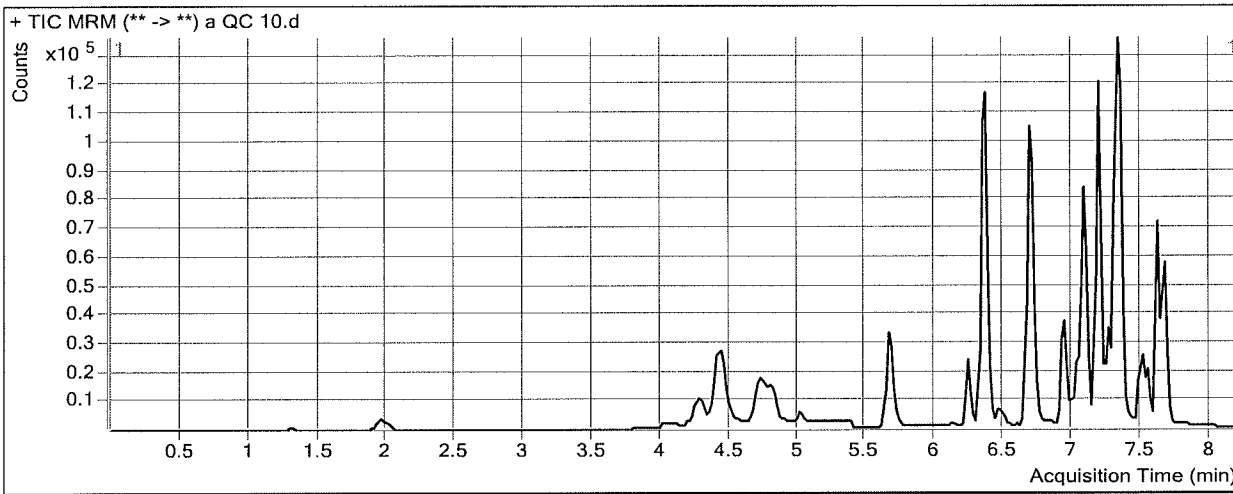
Multi-Drug Confirmatory Analysis Report

Batch Data Path D:\2018 Data\112918 mdq\QuantResults\mdq p1a.batch.bin
Analysis Time 12/3/2018 9:57 AM **Analyst Name** ISP Tox
Report Time 12/3/2018 9:59 AM **Reporter Name** ISP Tox
Last Calib Update 12/3/2018 9:57 AM **Batch State** Processed

Analysis Info

Acq Time 2018-11-29 15:34 **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



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.328	1237	886	1.3959	13.1165
Hydromorphone	Hydromorphone-D6	1.989	4248	14469	0.2936	9.6897
Codeine	Codeine-D6	4.115	1982	7153	0.2771	10.8959
Amphetamine	Amphetamine-D11	4.423	47699	39414	1.2102	8.3291
Oxycodone	Oxycodone-D6	4.489	10571	44001	0.2402	10.5297
Methamphetamine	Methamphetamine-D11	4.841	18542	46049	0.4027	12.3352
Hydrocodone	Hydrocodone-D6	4.794	6907	34849	0.1982	10.4725
Norhydrocodone	Norhydrocodone-D3	4.838	384	13306	0.0289	21.1014 ☆ ☆ not evaluated
6-MAM	6-MAM-D6	5.028	306	8796	0.0348	1.3689 ☆ ☆
Phentermine	Phentermine-D5	5.726	7569	108511	0.0698	8.1286 ☆ ☆
Dextroprphan	Dextroprphan-D3	6.247	6935	48892	0.1418	10.2473
7-aminoclonazepam	7-Aminoclonazepam-D4	6.352	11131	37431	0.2974	11.3462
Tramadol	Tramadol-13C-D3	6.361	63045	275338	0.2290	10.5471
Metoprolol	Oxycodone-D6	6.457	7812	44001	0.1776	12.0410
Doxylamine	Doxylamine-D5	6.702	58289	262986	0.2216	10.6914
Bupropion	Bupropion-D9	6.951	20958	88349	0.2372	9.3742
Meprobamate	Meprobamate-D7	7.053	8970	43440	0.2065	13.0220
Zolpidem	Zolpidem-D6	7.102	38089	195628	0.1947	9.6030
Venlafaxine	Venlafaxine-D6	7.185	57863	246454	0.2348	10.0217
Trazodone	Trazodone-D6	7.296	18880	84585	0.2232	9.6604
Citalopram	Citalopram-D6	7.298	24682	111572	0.2212	10.4619
Dextromethorphan	Dextromethorphan-D3	7.329	4359	17602	0.2476	11.0630
Diphenhydramine	Diphenhydramine-D3	7.352	44145	196590	0.2246	9.8804



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

a qc 10

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Promethazine	Promethazine-D3	7.507	8737	46758	0.1869	10.4203
Clonazepam	Clonazepam-D4	7.543	10684	13673	0.7814	10.7532
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.601	2735	11568	0.2364	10.8398
Carisoprodol	Carisoprodol-D7	7.635	18349	108770	0.1687	9.9522
Lorazepam	Clonazepam-D4	7.643	5937	13673	0.4343	14.2596
Alprazolam	Alprazolam-D5	7.667	17536	66772	0.2626	10.6884



ISP FORENSICS - Cd'A Instrument # 62340

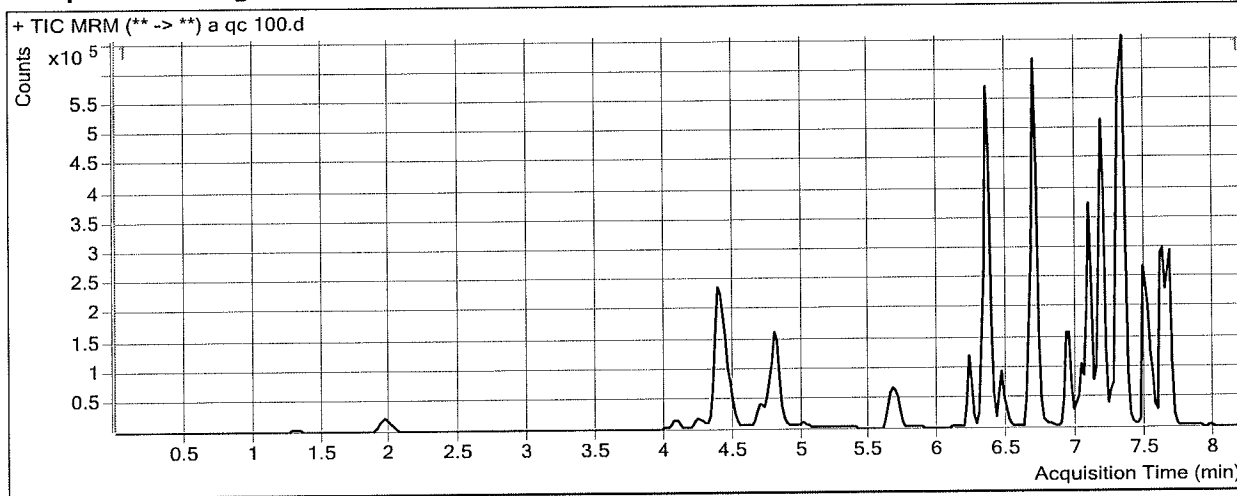
Multi-Drug Confirmatory Analysis Report

Batch Data Path	D:\2018 Data\112918 mdq\QuantResults\mdq p1a.batch.bin		
Analysis Time	12/3/2018 9:57 AM	Analyst Name	ISP Tox
Report Time	12/3/2018 9:59 AM	Reporter Name	ISP Tox
Last Calib Update	12/3/2018 9:57 AM	Batch State	Processed

Analysis Info

Acq Time	2018-11-29 18:18	Data File	a qc 100.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	1.328	13258	1029	12.8836	112.2129
Hydromorphone	Hydromorphone-D6	1.969	61913	19995	3.0964	99.7366
Codeine	Codeine-D6	4.095	30051	10267	2.9269	98.0299
Amphetamine	Amphetamine-D11	4.403	634395	67221	9.4374	115.2905
Oxycodone	Oxycodone-D6	4.469	165486	74308	2.2270	100.6321
Methamphetamine	Methamphetamine-D11	4.821	378497	122590	3.0875	107.9344
Hydrocodone	Hydrocodone-D6	4.774	106802	56285	1.8975	107.5601
Norhydrocodone	Norhydrocodone-D3	4.818	7947	19405	0.4096	91.7118 not evaluated A
6-MAM	6-MAM-D6	5.028	4165	14413	0.2890	9.7441
Phentermine	Phentermine-D5	5.706	146509	215132	0.6810	103.4447
Dextrorphan	Dextrorphan-D3	6.224	106048	72749	1.4577	101.5962
7-aminoclonazepam	7-Aminoclonazepam-D4	6.352	167137	62260	2.6845	107.4623
Tramadol	Tramadol-13C-D3	6.341	1023687	441376	2.3193	113.2381
Metoprolol	Oxycodone-D6	6.457	125306	74308	1.6863	108.9625
Doxylamine	Doxylamine-D5	6.682	894018	413154	2.1639	102.7425
Bupropion	Bupropion-D9	6.951	290565	115236	2.5215	100.8966
Meprobamate	Meprobamate-D7	7.033	104022	60198	1.7280	108.6940
Zolpidem	Zolpidem-D6	7.082	589757	298460	1.9760	105.9696
Venlafaxine	Venlafaxine-D6	7.165	850246	363662	2.3380	101.4375
Trazodone	Trazodone-D6	7.276	334228	141709	2.3586	105.2519
Citalopram	Citalopram-D6	7.298	348587	155781	2.2377	100.9689
Dextromethorphan	Dextromethorphan-D3	7.309	71897	30430	2.3627	100.8451
Diphenhydramine	Diphenhydramine-D3	7.332	611100	256394	2.3834	109.8477

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

a QC 100

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Promethazine	Promethazine-D3	7.487	372463	189119	1.9695	105.9539
Clonazepam	Clonazepam-D4	7.543	144817	17796	8.1377	110.5870
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.621	21949	16648	1.3184	57.3706
Carisoprodol	Carisoprodol-D7	7.635	269969	151108	1.7866	106.1411
Lorazepam	Clonazepam-D4	7.643	44872	17796	2.5215	106.2495
Alprazolam	Alprazolam-D5	7.667	249060	93287	2.6698	100.2803

Not evaluated
Primary peak
cut off

ISP FORENSICS - Cd'A Instrument # 62340

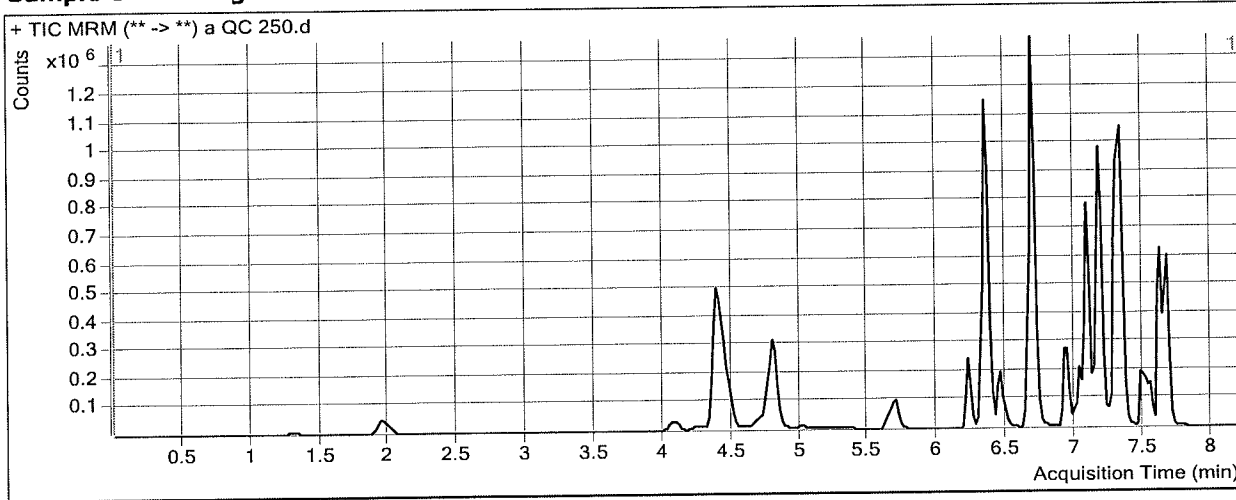
Multi-Drug Confirmatory Analysis Report

Batch Data Path D:\2018 Data\112918 mdq\QuantResults\mdq p1a.batch.bin
Analysis Time 12/3/2018 9:57 AM **Analyst Name** ISP Tox
Report Time 12/3/2018 9:59 AM **Reporter Name** ISP Tox
Last Calib Update 12/3/2018 9:57 AM **Batch State** Processed

Analysis Info

Acq Time 2018-11-29 19:46 **Data File** a QC 250.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



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.308	34180	1099	31.0898	269.2646
Hydromorphone	Hydromorphone-D6	1.969	160024	20066	7.9750	256.4783
Codeine	Codeine-D6	4.076	75903	10177	7.4583	247.0397
Amphetamine	Amphetamine-D11	4.403	1378338	62929	21.9031	277.3565
Oxycodone	Oxycodone-D6	4.469	417185	65445	6.3746	288.7295
Methamphetamine	Methamphetamine-D11	4.821	705009	97316	7.2445	255.9531
Hydrocodone	Hydrocodone-D6	4.774	263744	54152	4.8704	277.4142
Norhydrocodone	Norhydrocodone-D3	4.818	22506	17557	1.2819	253.5055 not evaluated ✗
6-MAM	6-MAM-D6	5.028	10725	14357	0.7470	24.8327
Phentermine	Phentermine-D5	5.706	324394	188469	1.7212	265.6451
Dextrorphan	Dextrorphan-D3	6.224	257659	66172	3.8938	270.7044
7-aminoclonazepam	7-Aminoclonazepam-D4	6.352	378961	56116	6.7532	271.2839
Tramadol	Tramadol-13C-D3	6.341	2451982	460694	5.3224	260.7678
Metoprolol	Oxycodone-D6	6.457	290084	65445	4.4325	285.3766
Doxylamine	Doxylamine-D5	6.682	2191402	406761	5.3874	255.5206
Bupropion	Bupropion-D9	6.951	550979	86383	6.3783	255.4256
Meprobamate	Meprobamate-D7	7.033	252784	57223	4.4175	277.8093
Zolpidem	Zolpidem-D6	7.082	1496336	291194	5.1386	277.0643
Venlafaxine	Venlafaxine-D6	7.165	2036983	327441	6.2209	270.2064
Trazodone	Trazodone-D6	7.276	778614	132672	5.8687	262.3882
Citalopram	Citalopram-D6	7.298	561138	110555	5.0756	228.3476
Dextromethorphan	Dextromethorphan-D3	7.309	109098	19759	5.5216	234.9341
Diphenhydramine	Diphenhydramine-D3	7.332	1095722	190278	5.7585	266.1321

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

a Qc 250

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Promethazine	Promethazine-D3	7.487	359637	75887	4.7391	254.3842
Clonazepam	Clonazepam-D4	7.543	273946	13106	20.9029	283.8256
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.601	84027	13591	6.1825	266.5464
Carisoprodol	Carisoprodol-D7	7.635	604607	136510	4.4290	263.2405
Lorazepam	Clonazepam-D4	7.643	79648	13106	6.0774	262.9660
Alprazolam	Alprazolam-D5	7.667	565737	80632	7.0163	262.0481



ISP FORENSICS - Cd'A Instrument # 62340

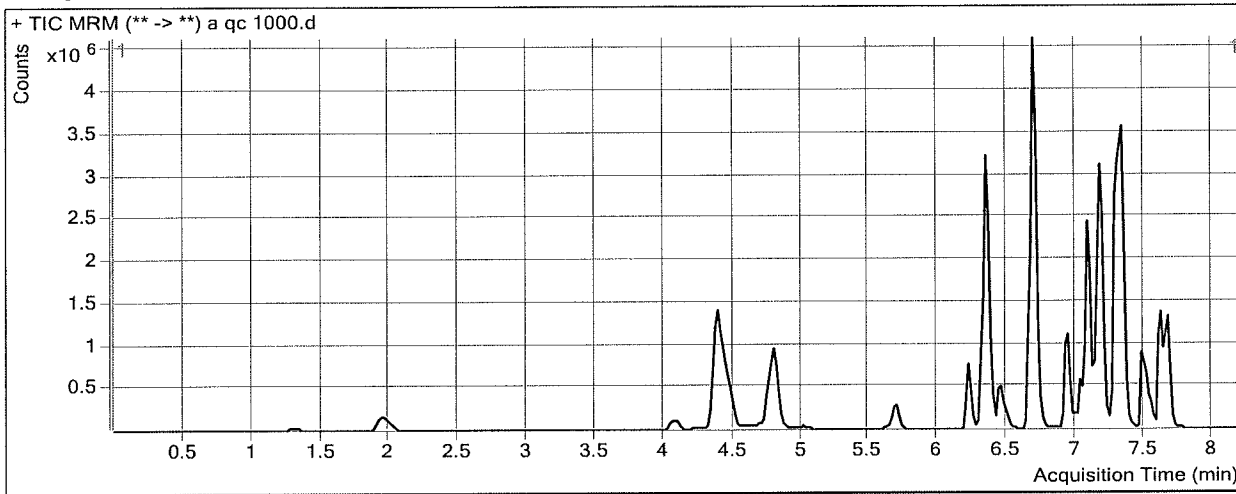
Multi-Drug Confirmatory Analysis Report

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Report Time	12/3/2018 9:59 AM	Reporter Name	ISP Tox
Last Calib Update	12/3/2018 9:57 AM	Batch State	Processed

Analysis Info

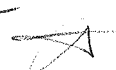
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Sample Type	QC	Sample Name	a qc 1000
Dilution	1	Acq Method	a1 mdq 618.m
Position	P2-D2	Sample Info	
Inj Vol	-1	Comment	AM 28 Panel 1

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.308	116747	1036	112.6972	973.2317
Hydromorphone	Hydromorphone-D6	1.969	558455	17628	31.6803	1018.0773
Codeine	Codeine-D6	4.076	246540	8315	29.6502	976.7882
Amphetamine	Amphetamine-D11	4.403	3975644	67299	59.0746	760.6219 ☆ ☆
Oxycodone	Oxycodone-D6	4.469	1419696	63014	22.5299	1021.3914
Methamphetamine	Methamphetamine-D11	4.802	2256113	88746	25.4222	903.2033
Hydrocodone	Hydrocodone-D6	4.774	870687	56724	15.3496	876.1257
Norhydrocodone	Norhydrocodone-D3	4.818	80268	14826	5.4140	1019.8850 ☆ ☆ not evaluated
6-MAM	6-MAM-D6	5.008	43074	14649	2.9405	97.0893
Phentermine	Phentermine-D5	5.706	1026659	173878	5.9045	917.9535
Dextroprphan	Dextroprphan-D3	6.224	883713	62302	14.1844	985.0764
7-aminoclonazepam	7-Aminoclonazepam-D4	6.352	875170	43672	20.0398	806.2593
Tramadol	Tramadol-13C-D3	6.341	8083439	494880	16.3341	801.7376
Metoprolol	Oxycodone-D6	6.457	859782	63014	13.6443	877.1413
Doxylamine	Doxylamine-D5	6.682	8318339	426461	19.5055	924.6361
Bupropion	Bupropion-D9	6.951	2336088	97090	24.0611	963.9123
Meprobamate	Meprobamate-D7	7.033	836467	49244	16.9863	1068.1271
Zolpidem	Zolpidem-D6	7.082	5236928	285273	18.3576	992.1969
Venlafaxine	Venlafaxine-D6	7.165	7472480	333578	22.4010	973.4662
Trazodone	Trazodone-D6	7.276	3355619	195806	17.1375	766.8513
Citalopram	Citalopram-D6	7.298	1992511	93210	21.3767	960.0036
Dextromethorphan	Dextromethorphan-D3	7.309	450949	18883	23.8807	1014.2561
Diphenhydramine	Diphenhydramine-D3	7.332	4416863	207864	21.2489	983.4135



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

a qc 1000

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Promethazine	Promethazine-D3	7.487	1705670	95426	17.8742	958.3243
Clonazepam	Clonazepam-D4	7.543	540737	7406	73.0181	991.0887
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.621	129063	10523	12.2647	528.1015
Carisoprodol	Carisoprodol-D7	7.635	1479706	90932	16.2726	967.3750
Lorazepam	Clonazepam-D4	7.643	189642	7406	25.6082	1123.7377
Alprazolam	Alprazolam-D5	7.667	1459146	55870	26.1167	972.9363

*not evaluated
Primary peak
cut off A*

