

Worklist: 1889

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>	
C2017-1529	1	94572	AM 13 Urine LCMS-QQQ Benz	
C2017-1763	1	94641	AM 13 Urine LCMS-QQQ Benz	
M2017-3374	2	94642	AM 13 Urine LCMS-QQQ Benz	
P2017-1788	1	94891	AM 13 Urine LCMS-QQQ Benz	
P2017-1834	1	94644	AM 13 Urine LCMS-QQQ Benz	
P2017-1845	1	94645	AM 13 Urine LCMS-QQQ Benz	
P2017-1878	1	94646	AM 13 Urine LCMS-QQQ Benz	
P2017-1881	1	94647	AM 13 Urine LCMS-QQQ Benz	
P2017-1897	1	94643	AM 13 Urine LCMS-QQQ Benz	



ISP FORENSICS - Cd'A Instrument # 62340

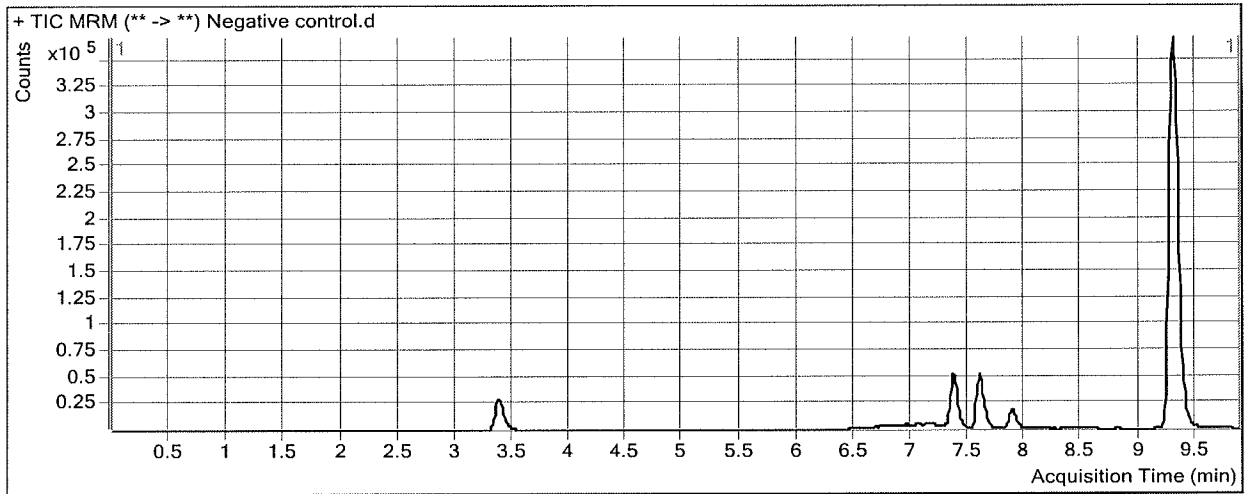
Benzodiazepine Analysis Report

Batch Data Path D:\2017 Data\9-13-17 urine benz\QuantResults\9-13-17 Urine BZO.batch.bin
Analysis Time 9/13/2017 4:02 PM **Analyst Name** ISP Tox
Report Time 9/13/2017 4:11 PM **Reporter Name** ISP Tox
Last Calib Update 9/13/2017 4:02 PM **Batch State** Processed

Analysis Info

Acq Time 2017-09-13 11:01 **Data File** Negative control.d
Sample Type Sample **Sample Name** Negative control
Dilution 1 **Acq Method** Benzos_Z_Drugs_ACN_FA_ISP 2016.m
Position P1-B3 **Sample Info** lot 9517
Inj Vol -1 **Comment** AM 13 Benzo and Z by LCQQQ

Sample Chromatogram



ISP FORENSICS - Cd'A Instrument # 62340

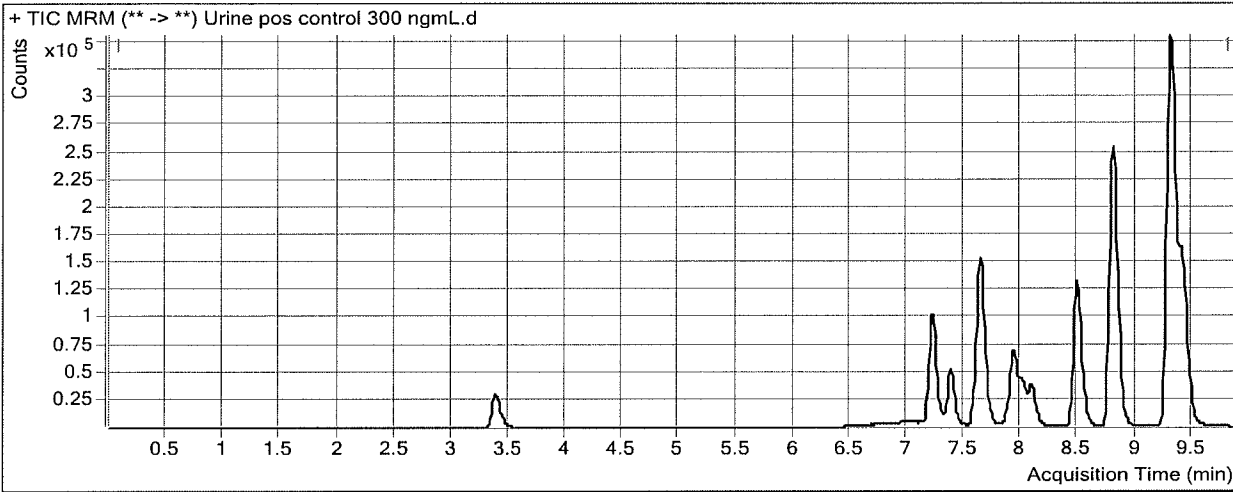
Benzodiazepine Analysis Report

Batch Data Path D:\2017 Data\9-13-17 urine benz\QuantResults\9-13-17 Urine BZO.batch.bin
Analysis Time 9/13/2017 4:02 PM **Analyst Name** ISP Tox
Report Time 9/13/2017 4:11 PM **Reporter Name** ISP Tox
Last Calib Update 9/13/2017 4:02 PM **Batch State** Processed

Analysis Info

Acq Time 2017-09-13 11:16 **Data File** Urine pos control 300 ngmL.d
Sample Type Sample **Sample Name** Urine pos control 300 ng/mL
Dilution 1 **Acq Method** Benzos_Z_Drugs_ACN_FA_ISP 2016.m
Position P1-B4 **Sample Info** 300 ng/ml benz mix lot FE022207-01 in 9517
Inj Vol -1 **Comment** AM 13 Benzo and Z by LCQQQ

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Nitrazepam	Clonazepam-D4 ISTD	7.217	301697	60502	4.9866	839.6925
Oxazepam	Oxazepam D5 ISTD	7.637	361166	98643	3.6613	329.3627
Clonazepam	Clonazepam-D4 ISTD	7.929	207098	60502	3.4230	378.6462
Lorazepam	Oxazepam D5 ISTD	8.002	77739	98643	0.7881	265.2319
Alprazolam	alphahydroxyalprazolam-D5 ISTD	8.080	129276	133556	0.9680	427.5942
Flunitrazepam	Clonazepam-D4 ISTD	8.472	503845	60502	8.3278	469.8669
Temazepam	Oxazepam D5 ISTD	8.790	993383	98643	10.0705	505.0877
Diazepam	Diazepam-D5 ISTD	9.410	506363	1018046	0.4974	417.0740

ISP FORENSICS - Cd'A Instrument # 62340

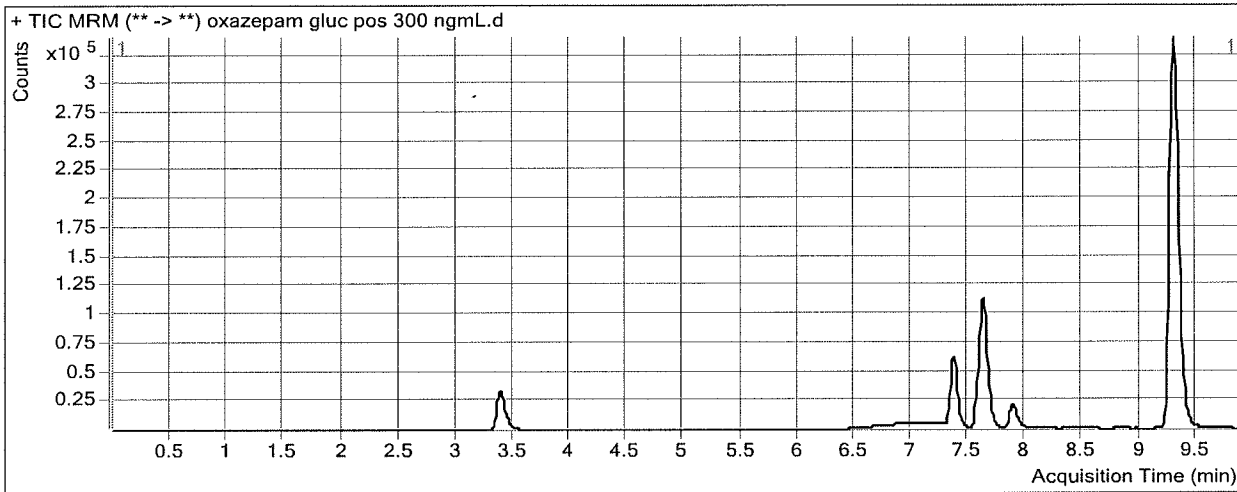
Benzodiazepine Analysis Report

Batch Data Path D:\2017 Data\9-13-17 urine benz\QuantResults\9-13-17 Urine BZO.batch.bin
Analysis Time 9/13/2017 4:02 PM **Analyst Name** ISP Tox
Report Time 9/13/2017 4:10 PM **Reporter Name** ISP Tox
Last Calib Update 9/13/2017 4:02 PM **Batch State** Processed

Analysis Info

Acq Time 2017-09-13 10:46 **Data File** oxazepam gluc pos 300 ngmL.d
Sample Type Sample **Sample Name** oxazepam gluc pos 300 ng/mL
Dilution 1 **Acq Method** Benzos_Z_Drugs_ACN_FA_ISP 2016.m
Position P1-B2 **Sample Info** Oxazepam Glucuronide WS (30uL) lot 51018 in 9517 with glucuronidase
Inj Vol -1 **Comment** AM 13 Benzo and Z by LCQQQ

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Oxazepam	Oxazepam D5 ISTD	7.637	230778	106069	2.1757	195.0497

ISP FORENSICS - Cd'A Instrument # 62340

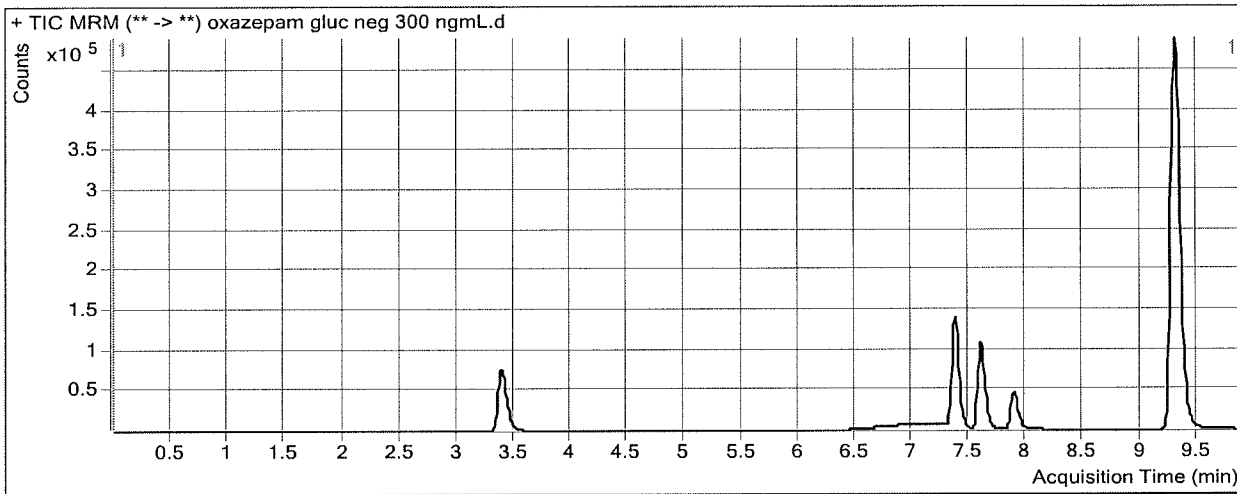
Benzodiazepine Analysis Report

Batch Data Path D:\2017 Data\9-13-17 urine benz\QuantResults\9-13-17 Urine BZO.batch.bin
Analysis Time 9/13/2017 4:02 PM **Analyst Name** ISP Tox
Report Time 9/13/2017 4:10 PM **Reporter Name** ISP Tox
Last Calib Update 9/13/2017 4:02 PM **Batch State** Processed

Analysis Info

Acq Time 2017-09-13 10:31 **Data File** oxazepam gluc neg 300 ngmL.d
Sample Type Sample **Sample Name** oxazepam gluc neg 300 ng/mL
Dilution 1 **Acq Method** Benzos_Z_Drugs_ACN_FA_ISP 2016.m
Position P1-B1 **Sample Info** Oxazepam Glucuronide WS lot 51018 in 9517 without glucuronidase
Inj Vol -1 **Comment** AM 13 Benzo and Z by LCQQQ

Sample Chromatogram



Results

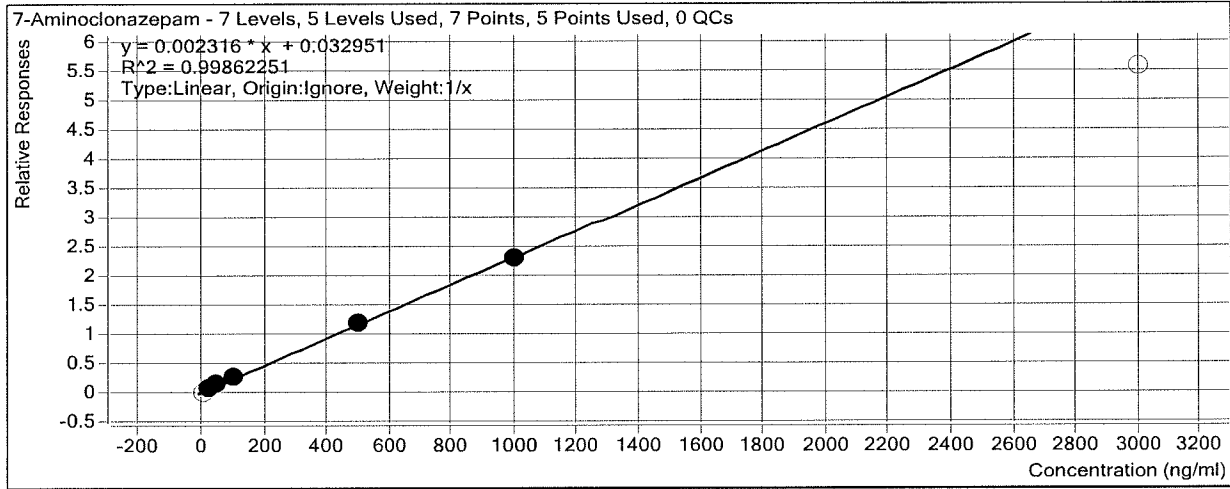
Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Oxazepam	Oxazepam D5 ISTD	7.637	3514	224805	0.0156	3.3656

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\9-13-17 urine benz\QuantResults\9-13-17 Urine BZO.batch.bin

Last Calib Update 9/13/2017 4:02 PM **Analyst Name** ISP TOX

Target Compound 7-Aminoclonazepam
Internal Standard 7-Aminoflunitrazepam-D7 ISTD



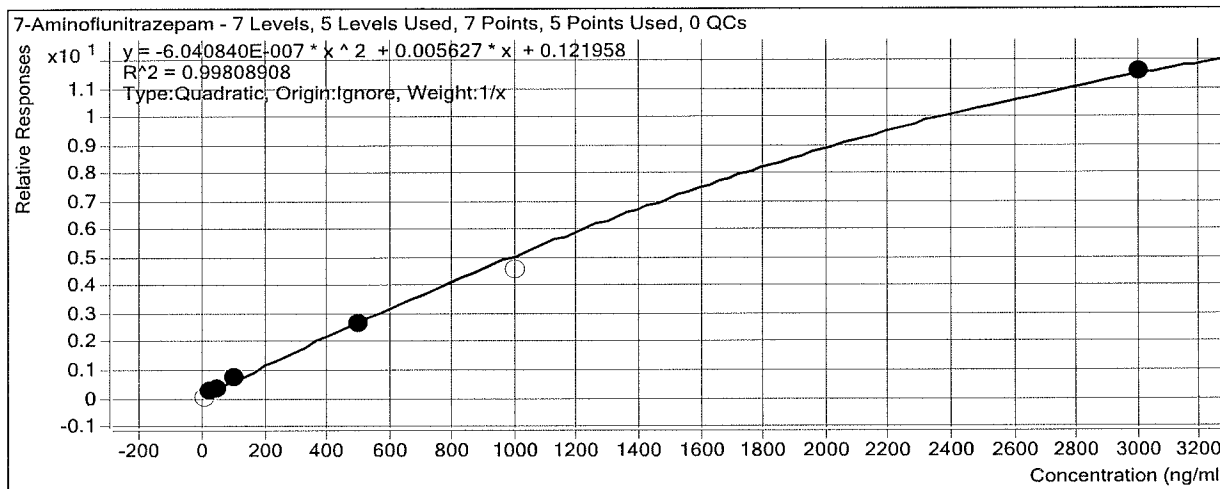
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	2	<input type="checkbox"/>	10	0.0	0.0
25 ng/mL	4	<input checked="" type="checkbox"/>	25	21.7	87.0
50 ng/mL	5	<input checked="" type="checkbox"/>	50	51.3	102.6
100 ng/mL	6	<input checked="" type="checkbox"/>	100	111.0	111.0
500 ng/mL	7	<input checked="" type="checkbox"/>	500	503.1	100.6
1000 ng/mL	8	<input checked="" type="checkbox"/>	1000	987.8	98.8
3000 ng/mL	9	<input type="checkbox"/>	3000	2392.6	79.8

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\9-13-17 urine benz\QuantResults\9-13-17 Urine BZO.batch.bin

Last Calib Update 9/13/2017 4:02 PM **Analyst Name** ISP TOX

Target Compound 7-Aminoflunitrazepam
Internal Standard 7-Aminoflunitrazepam-D7 ISTD



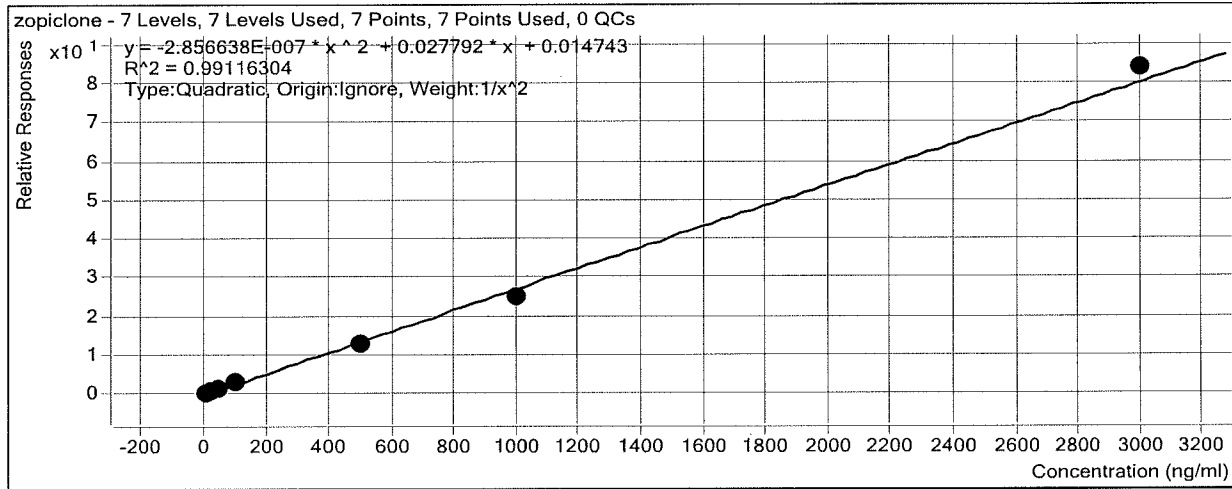
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	2	<input type="checkbox"/>	10	0.0	0.0
25 ng/mL	4	<input checked="" type="checkbox"/>	25	22.2	88.6
50 ng/mL	5	<input checked="" type="checkbox"/>	50	49.1	98.1
100 ng/mL	6	<input checked="" type="checkbox"/>	100	116.3	116.3
500 ng/mL	7	<input checked="" type="checkbox"/>	500	484.3	96.9
1000 ng/mL	8	<input type="checkbox"/>	1000	871.7	87.2
3000 ng/mL	9	<input checked="" type="checkbox"/>	3000	3005.2	100.2

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\9-13-17 urine benz\QuantResults\9-13-17 Urine BZO.batch.bin

Last Calib Update 9/13/2017 4:02 PM **Analyst Name** ISP TOX

Target Compound zopiclone
Internal Standard Oxazepam D5 ISTD



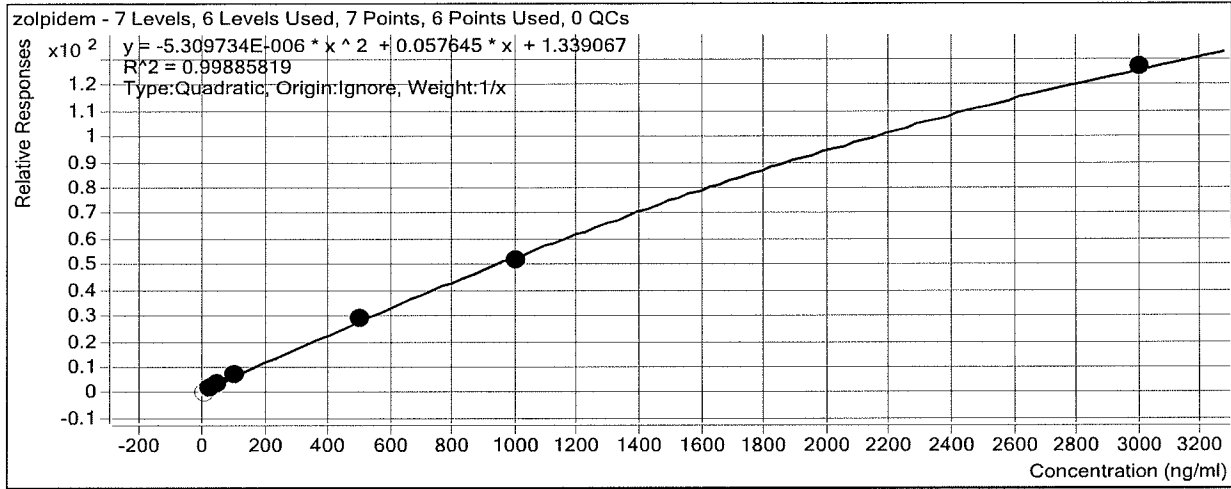
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	2	<input checked="" type="checkbox"/>	10	9.5	94.8
25 ng/mL	4	<input checked="" type="checkbox"/>	25	28.4	113.6
50 ng/mL	5	<input checked="" type="checkbox"/>	50	48.3	96.7
100 ng/mL	6	<input checked="" type="checkbox"/>	100	106.4	106.4
500 ng/mL	7	<input checked="" type="checkbox"/>	500	467.1	93.4
1000 ng/mL	8	<input checked="" type="checkbox"/>	1000	911.5	91.2
3000 ng/mL	9	<input checked="" type="checkbox"/>	3000	3119.1	104.0

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\9-13-17 urine benz\QuantResults\9-13-17 Urine BZO.batch.bin

Last Calib Update 9/13/2017 4:02 PM **Analyst Name** ISP TOX

Target Compound zolpidem
Internal Standard Oxazepam D5 ISTD



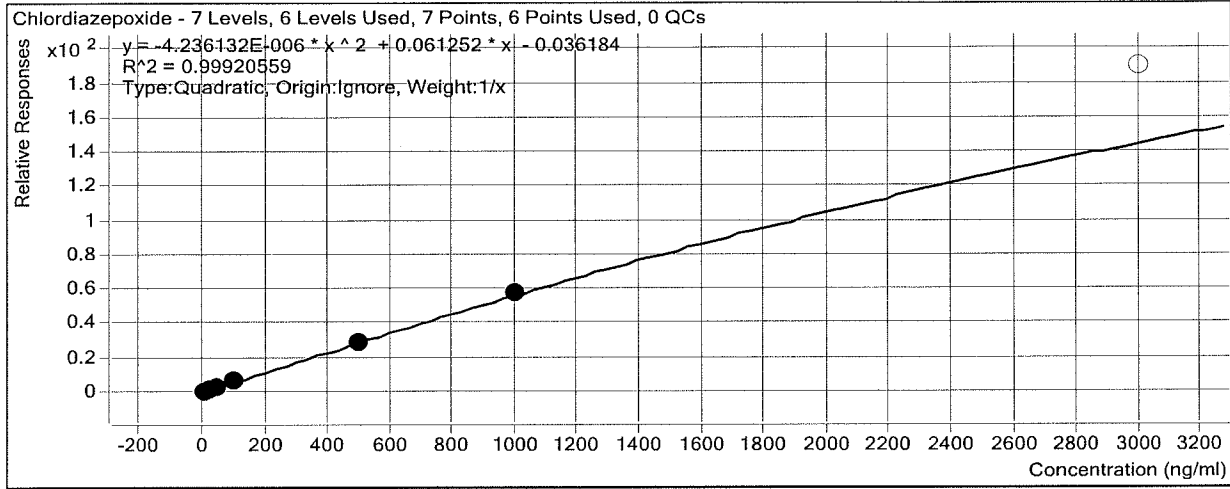
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	2	<input type="checkbox"/>	10	0.0	0.0
25 ng/mL	4	<input checked="" type="checkbox"/>	25	21.7	86.9
50 ng/mL	5	<input checked="" type="checkbox"/>	50	50.1	100.2
100 ng/mL	6	<input checked="" type="checkbox"/>	100	113.9	113.9
500 ng/mL	7	<input checked="" type="checkbox"/>	500	507.6	101.5
1000 ng/mL	8	<input checked="" type="checkbox"/>	1000	971.0	97.1
3000 ng/mL	9	<input checked="" type="checkbox"/>	3000	3014.2	100.5

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\9-13-17 urine benz\QuantResults\9-13-17 Urine BZO.batch.bin

Last Calib Update 9/13/2017 4:02 PM **Analyst Name** ISP TOX

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



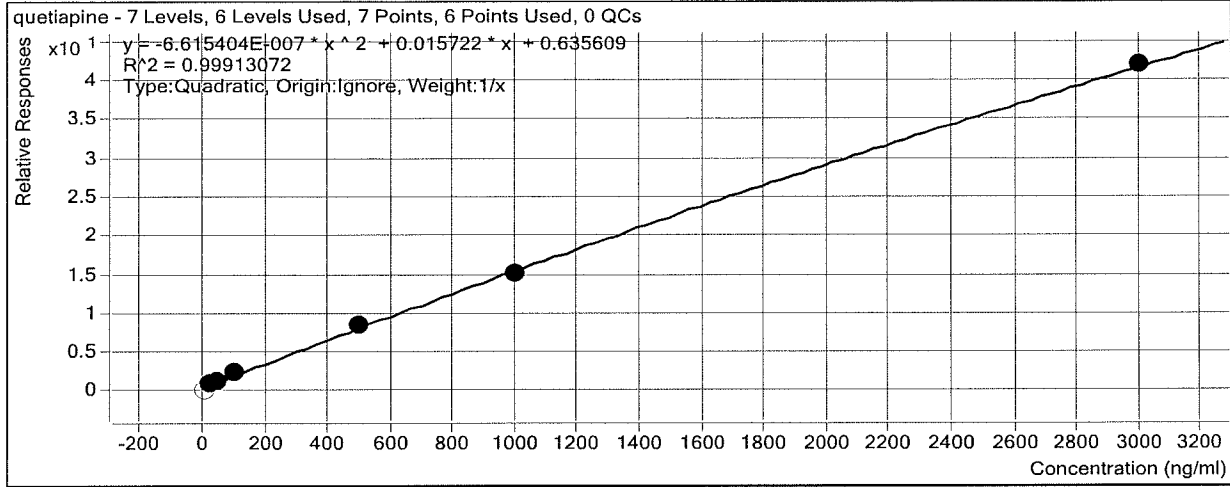
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	2	<input checked="" type="checkbox"/>	10	8.8	87.8
25 ng/mL	4	<input checked="" type="checkbox"/>	25	25.8	103.1
50 ng/mL	5	<input checked="" type="checkbox"/>	50	53.2	106.4
100 ng/mL	6	<input checked="" type="checkbox"/>	100	105.0	105.0
500 ng/mL	7	<input checked="" type="checkbox"/>	500	485.0	97.0
1000 ng/mL	8	<input checked="" type="checkbox"/>	1000	1007.3	100.7
3000 ng/mL	9	<input type="checkbox"/>	3000	4485.5	149.5

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\9-13-17 urine benz\QuantResults\9-13-17 Urine BZO.batch.bin

Last Calib Update 9/13/2017 4:02 PM **Analyst Name** ISP TOX

Target Compound *quetiapine*
Internal Standard *Oxazepam D5 ISTD*



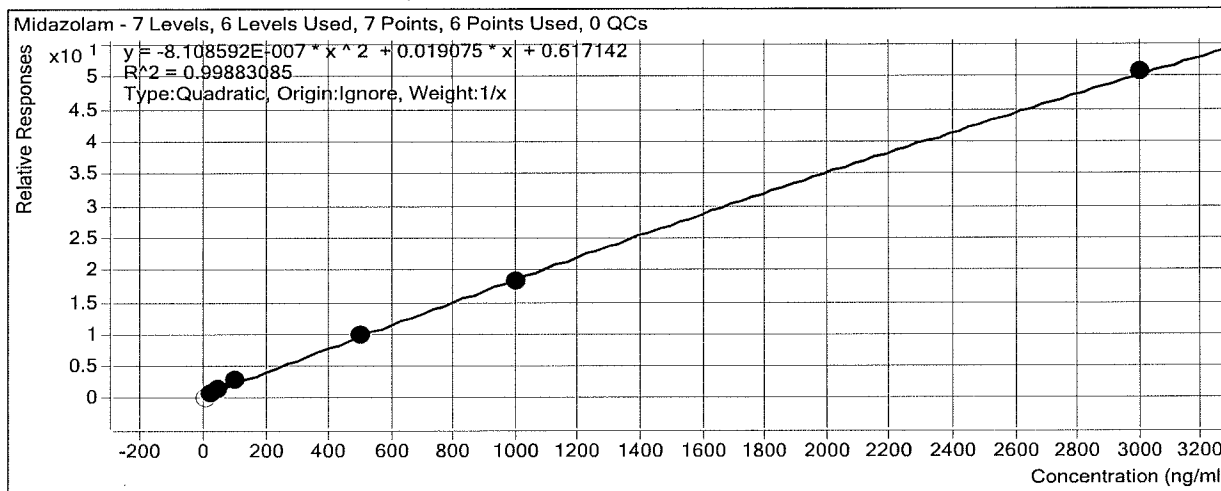
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	2	<input type="checkbox"/>	10	0.0	0.0
25 ng/mL	4	<input checked="" type="checkbox"/>	25	21.6	86.6
50 ng/mL	5	<input checked="" type="checkbox"/>	50	50.5	101.0
100 ng/mL	6	<input checked="" type="checkbox"/>	100	113.1	113.1
500 ng/mL	7	<input checked="" type="checkbox"/>	500	509.0	101.8
1000 ng/mL	8	<input checked="" type="checkbox"/>	1000	972.3	97.2
3000 ng/mL	9	<input checked="" type="checkbox"/>	3000	3008.9	100.3

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\9-13-17 urine benz\QuantResults\9-13-17 Urine BZO.batch.bin

Last Calib Update 9/13/2017 4:02 PM **Analyst Name** ISP TOX

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



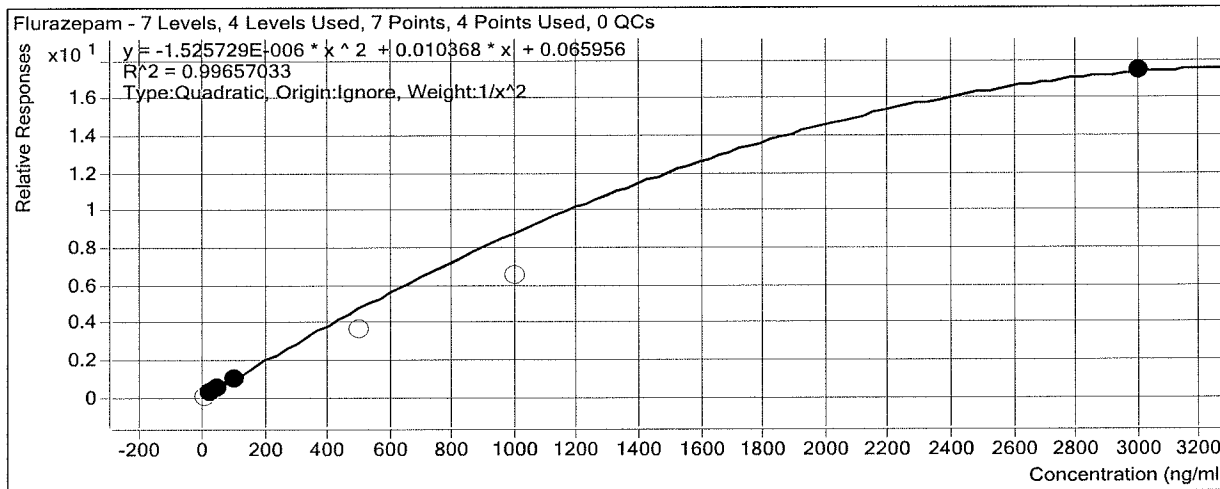
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	2	<input type="checkbox"/>	10	0.0	0.0
25 ng/mL	4	<input checked="" type="checkbox"/>	25	21.0	83.9
50 ng/mL	5	<input checked="" type="checkbox"/>	50	50.6	101.3
100 ng/mL	6	<input checked="" type="checkbox"/>	100	115.9	115.9
500 ng/mL	7	<input checked="" type="checkbox"/>	500	507.3	101.5
1000 ng/mL	8	<input checked="" type="checkbox"/>	1000	971.0	97.1
3000 ng/mL	9	<input checked="" type="checkbox"/>	3000	3009.7	100.3

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\9-13-17 urine benz\QuantResults\9-13-17 Urine BZO.batch.bin

Last Calib Update 9/13/2017 4:02 PM **Analyst Name** ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	2	<input type="checkbox"/>	10	4.7	46.7
25 ng/mL	4	<input checked="" type="checkbox"/>	25	24.6	98.5
50 ng/mL	5	<input checked="" type="checkbox"/>	50	52.3	104.6
100 ng/mL	6	<input checked="" type="checkbox"/>	100	96.8	96.8
500 ng/mL	7	<input type="checkbox"/>	500	367.6	73.5
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3000 ng/mL	9	<input checked="" type="checkbox"/>	3000	3010.3	100.3

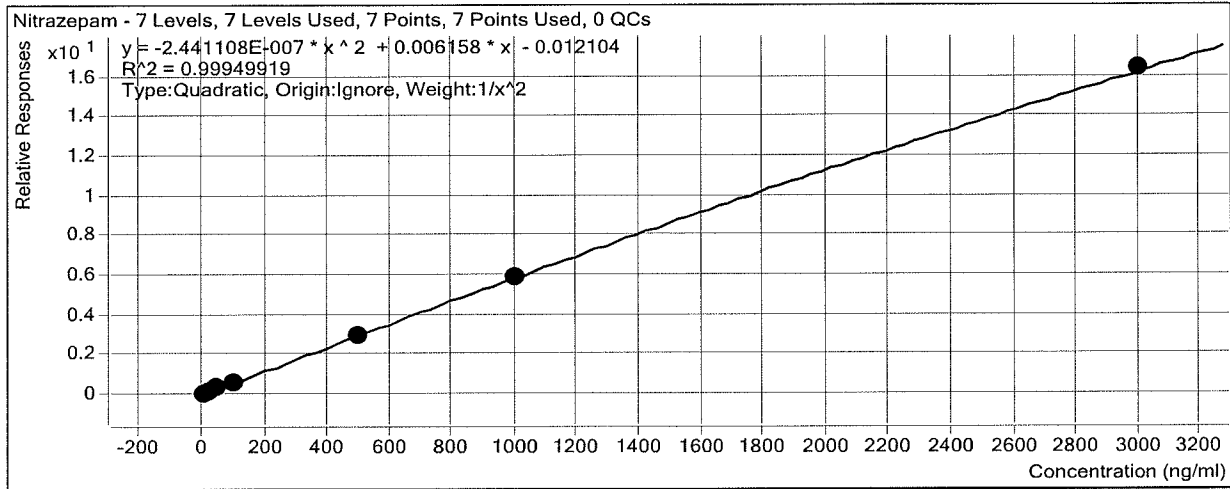
BZO

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\9-13-17 urine benz\QuantResults\9-13-17 Urine BZO.batch.bin

Last Calib Update 9/13/2017 4:02 PM **Analyst Name** ISP TOX

Target Compound Nitrazepam
Internal Standard Clonazepam-D4 ISTD



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	2	<input checked="" type="checkbox"/>	10	9.9	98.8
25 ng/mL	4	<input checked="" type="checkbox"/>	25	25.9	103.7
50 ng/mL	5	<input checked="" type="checkbox"/>	50	49.3	98.6
100 ng/mL	6	<input checked="" type="checkbox"/>	100	100.8	100.8
500 ng/mL	7	<input checked="" type="checkbox"/>	500	492.1	98.4
1000 ng/mL	8	<input checked="" type="checkbox"/>	1000	990.9	99.1
3000 ng/mL	9	<input checked="" type="checkbox"/>	3000	3019.8	100.7

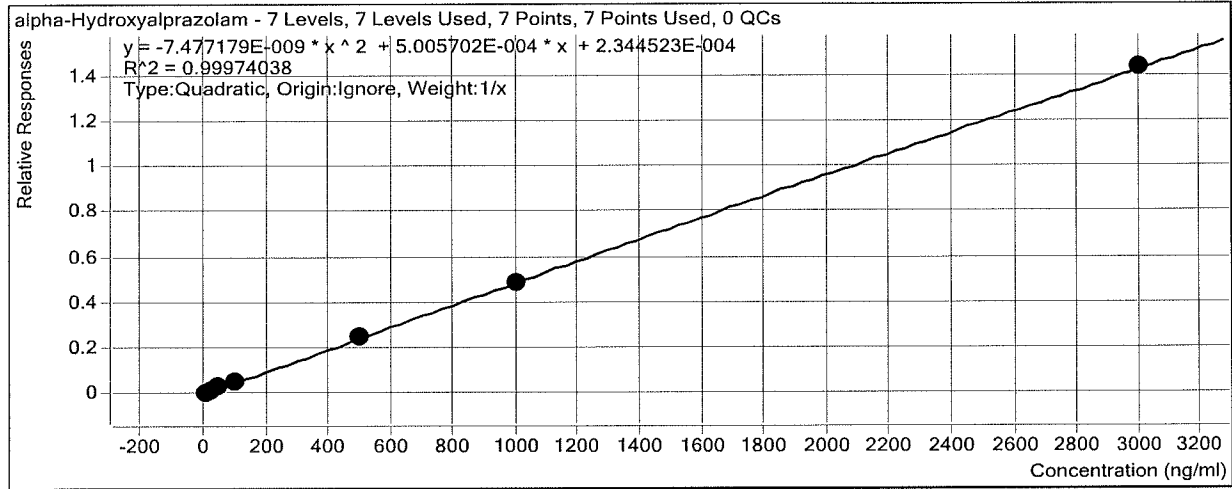
BZO

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\9-13-17 urine benz\QuantResults\9-13-17 Urine BZO.batch.bin

Last Calib Update 9/13/2017 4:02 PM **Analyst Name** ISP TOX

Target Compound *alpha-Hydroxyalprazolam*
Internal Standard *alphahydroxyalprazolam-D5 ISTD*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	2	<input checked="" type="checkbox"/>	10	9.5	94.9
25 ng/mL	4	<input checked="" type="checkbox"/>	25	23.1	92.2
50 ng/mL	5	<input checked="" type="checkbox"/>	50	53.4	106.7
100 ng/mL	6	<input checked="" type="checkbox"/>	100	107.6	107.6
500 ng/mL	7	<input checked="" type="checkbox"/>	500	495.7	99.1
1000 ng/mL	8	<input checked="" type="checkbox"/>	1000	992.8	99.3
3000 ng/mL	9	<input checked="" type="checkbox"/>	3000	3003.0	100.1

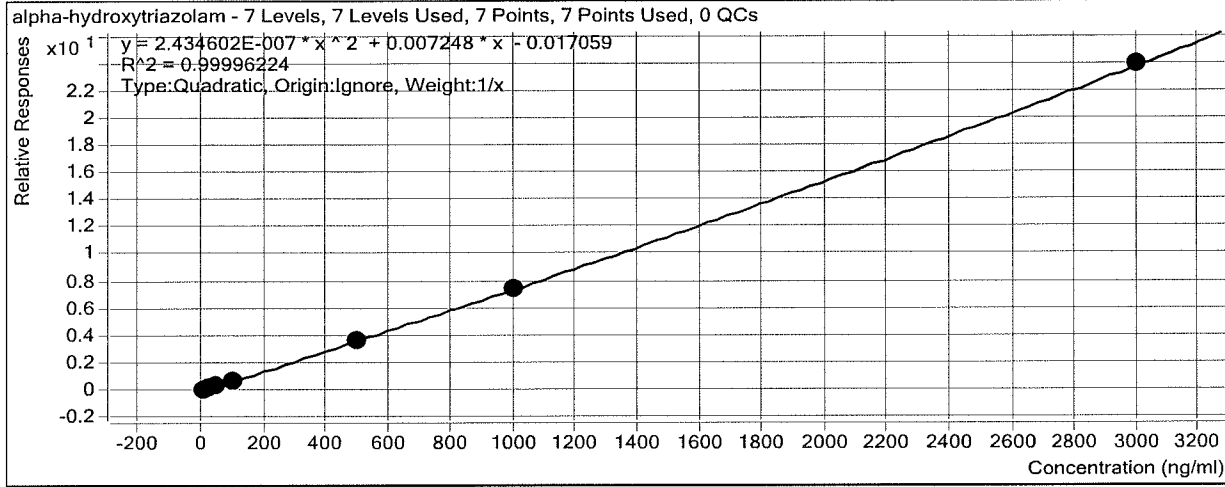
BW

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\9-13-17 urine benz\QuantResults\9-13-17 Urine BZO.batch.bin

Last Calib Update 9/13/2017 4:02 PM **Analyst Name** ISP TOX

Target Compound *alpha-hydroxytriazolam*
Internal Standard *Nordiazepam-D5 ISTD*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	2	<input checked="" type="checkbox"/>	10	9.9	99.2
25 ng/mL	4	<input checked="" type="checkbox"/>	25	24.4	97.6
50 ng/mL	5	<input checked="" type="checkbox"/>	50	50.6	101.3
100 ng/mL	6	<input checked="" type="checkbox"/>	100	102.8	102.8
500 ng/mL	7	<input checked="" type="checkbox"/>	500	494.0	98.8
1000 ng/mL	8	<input checked="" type="checkbox"/>	1000	1003.5	100.4
3000 ng/mL	9	<input checked="" type="checkbox"/>	3000	2999.7	100.0

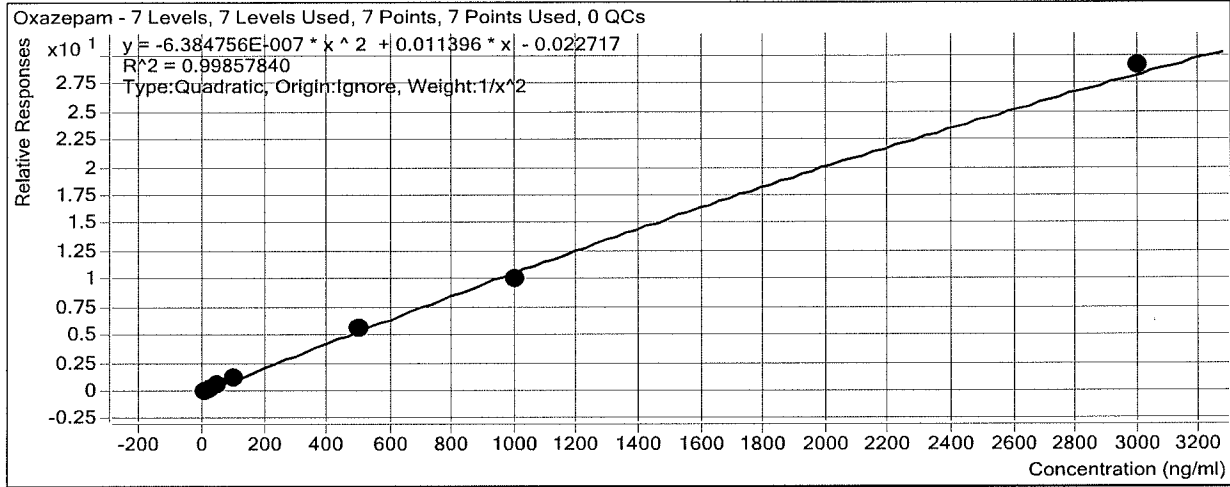
BW

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\9-13-17 urine benz\QuantResults\9-13-17 Urine BZO.batch.bin

Last Calib Update 9/13/2017 4:02 PM **Analyst Name** ISP TOX

Target Compound Oxazepam
Internal Standard Oxazepam D5 ISTD



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	2	<input checked="" type="checkbox"/>	10	9.8	98.4
25 ng/mL	4	<input checked="" type="checkbox"/>	25	25.8	103.1
50 ng/mL	5	<input checked="" type="checkbox"/>	50	51.0	102.0
100 ng/mL	6	<input checked="" type="checkbox"/>	100	100.3	100.3
500 ng/mL	7	<input checked="" type="checkbox"/>	500	502.4	100.5
1000 ng/mL	8	<input checked="" type="checkbox"/>	1000	931.3	93.1
3000 ng/mL	9	<input checked="" type="checkbox"/>	3000	3086.7	102.9

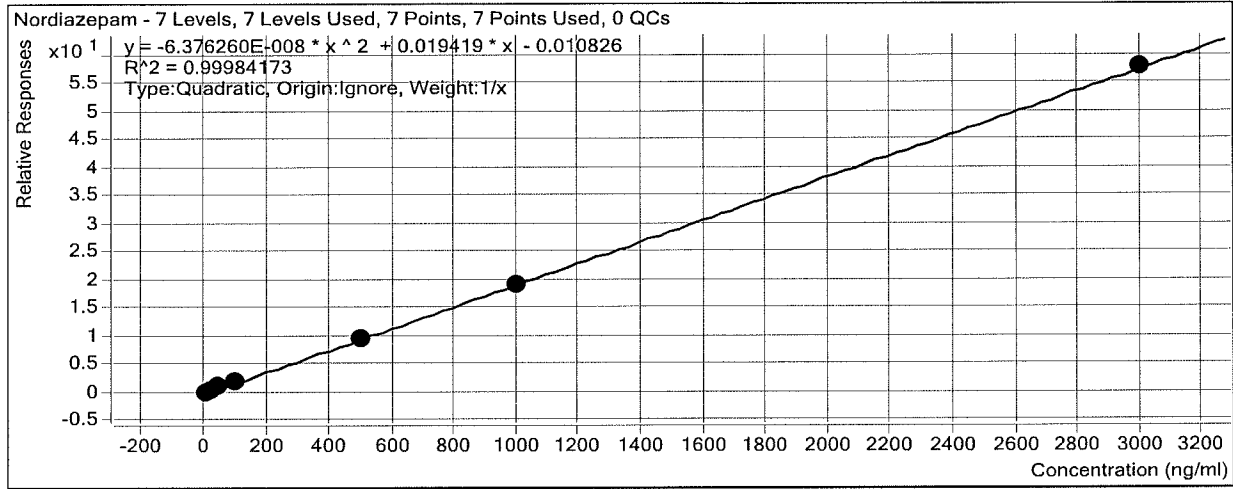
BTW

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\9-13-17 urine benz\QuantResults\9-13-17 Urine BZO.batch.bin

Last Calib Update 9/13/2017 4:02 PM **Analyst Name** ISP TOX

Target Compound Nordiazepam
Internal Standard Nordiazepam-D5 ISTD



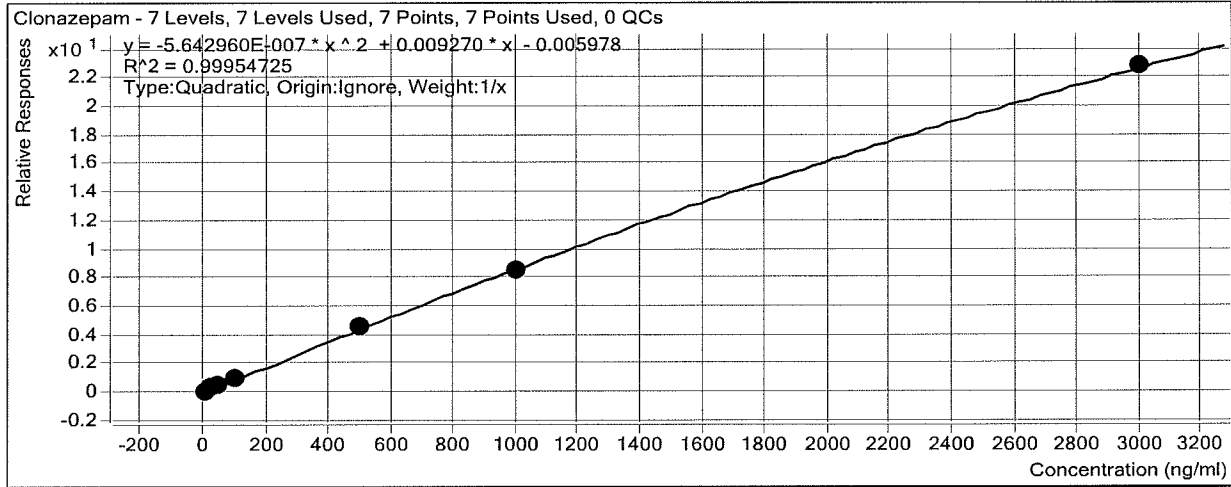
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	2	<input checked="" type="checkbox"/>	10	8.6	86.5
25 ng/mL	4	<input checked="" type="checkbox"/>	25	26.1	104.2
50 ng/mL	5	<input checked="" type="checkbox"/>	50	53.0	105.9
100 ng/mL	6	<input checked="" type="checkbox"/>	100	104.7	104.7
500 ng/mL	7	<input checked="" type="checkbox"/>	500	496.1	99.2
1000 ng/mL	8	<input checked="" type="checkbox"/>	1000	994.1	99.4
3000 ng/mL	9	<input checked="" type="checkbox"/>	3000	3002.4	100.1

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\9-13-17 urine benz\QuantResults\9-13-17 Urine BZO.batch.bin

Last Calib Update 9/13/2017 4:02 PM **Analyst Name** ISP TOX

Target Compound Clonazepam
Internal Standard Clonazepam-D4 ISTD



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	2	<input checked="" type="checkbox"/>	10	8.2	82.3
25 ng/mL	4	<input checked="" type="checkbox"/>	25	26.8	107.2
50 ng/mL	5	<input checked="" type="checkbox"/>	50	51.7	103.4
100 ng/mL	6	<input checked="" type="checkbox"/>	100	108.3	108.3
500 ng/mL	7	<input checked="" type="checkbox"/>	500	502.3	100.5
1000 ng/mL	8	<input checked="" type="checkbox"/>	1000	980.5	98.0
3000 ng/mL	9	<input checked="" type="checkbox"/>	3000	3008.0	100.3

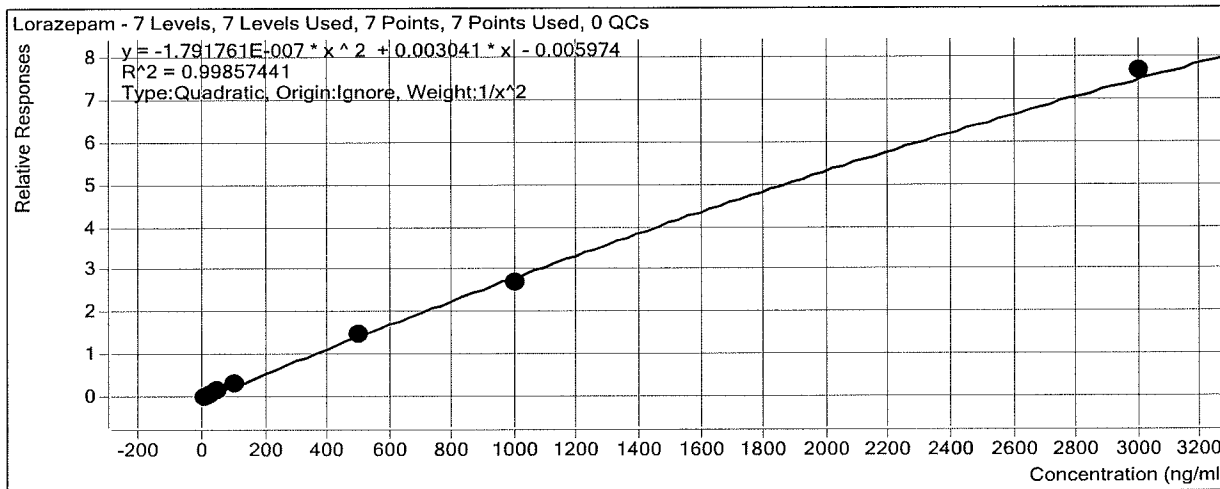
ISP

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\9-13-17 urine benz\QuantResults\9-13-17 Urine BZO.batch.bin

Last Calib Update 9/13/2017 4:02 PM **Analyst Name** ISP TOX

Target Compound Lorazepam
Internal Standard Oxazepam D5 ISTD



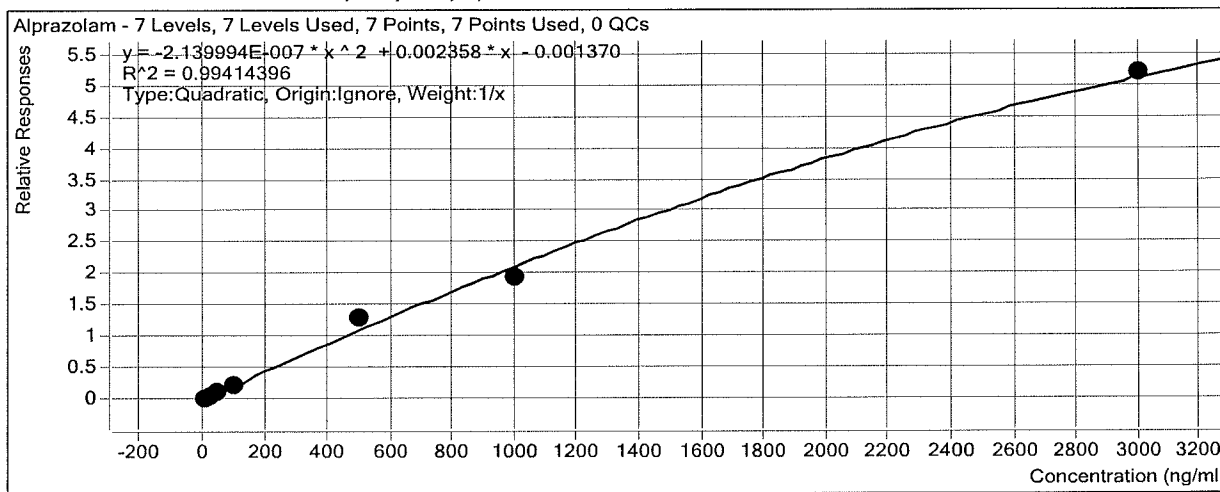
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	2	<input checked="" type="checkbox"/>	10	9.9	98.6
25 ng/mL	4	<input checked="" type="checkbox"/>	25	25.9	103.5
50 ng/mL	5	<input checked="" type="checkbox"/>	50	49.4	98.9
100 ng/mL	6	<input checked="" type="checkbox"/>	100	103.2	103.2
500 ng/mL	7	<input checked="" type="checkbox"/>	500	496.8	99.4
1000 ng/mL	8	<input checked="" type="checkbox"/>	1000	940.3	94.0
3000 ng/mL	9	<input checked="" type="checkbox"/>	3000	3081.9	102.7

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\9-13-17 urine benz\QuantResults\9-13-17 Urine BZO.batch.bin

Last Calib Update 9/13/2017 4:02 PM **Analyst Name** ISP TOX

Target Compound Alprazolam
Internal Standard alphahydroxyalprazolam-D5 ISTD



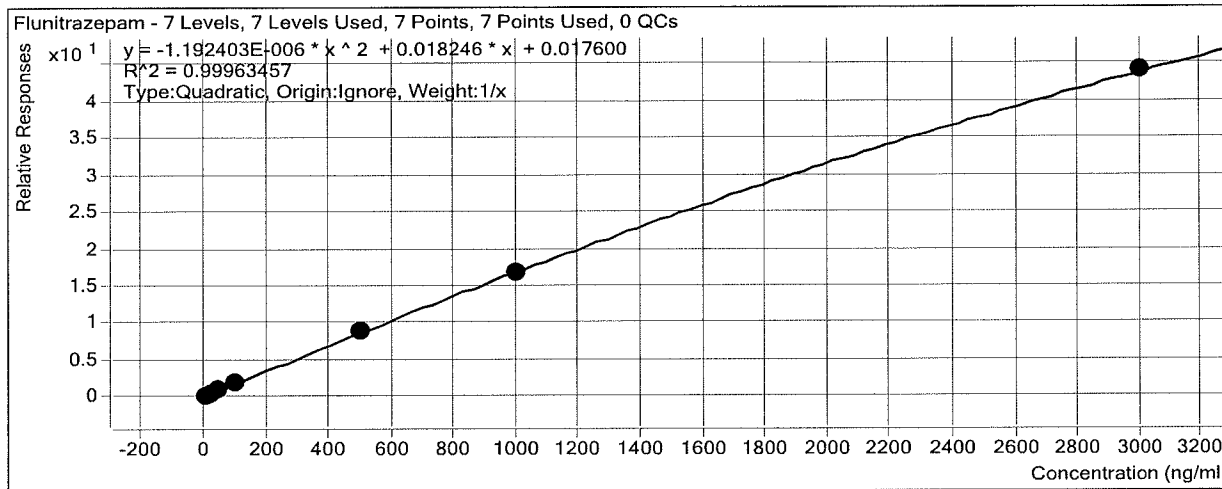
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	2	<input checked="" type="checkbox"/>	10	9.0	89.6
25 ng/mL	4	<input checked="" type="checkbox"/>	25	25.5	101.9
50 ng/mL	5	<input checked="" type="checkbox"/>	50	50.7	101.4
100 ng/mL	6	<input checked="" type="checkbox"/>	100	101.8	101.8
500 ng/mL	7	<input checked="" type="checkbox"/>	500	573.8	114.8
1000 ng/mL	8	<input checked="" type="checkbox"/>	1000	896.1	89.6
3000 ng/mL	9	<input checked="" type="checkbox"/>	3000	3038.7	101.3

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\9-13-17 urine benz\QuantResults\9-13-17 Urine BZO.batch.bin

Last Calib Update 9/13/2017 4:02 PM **Analyst Name** ISP TOX

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



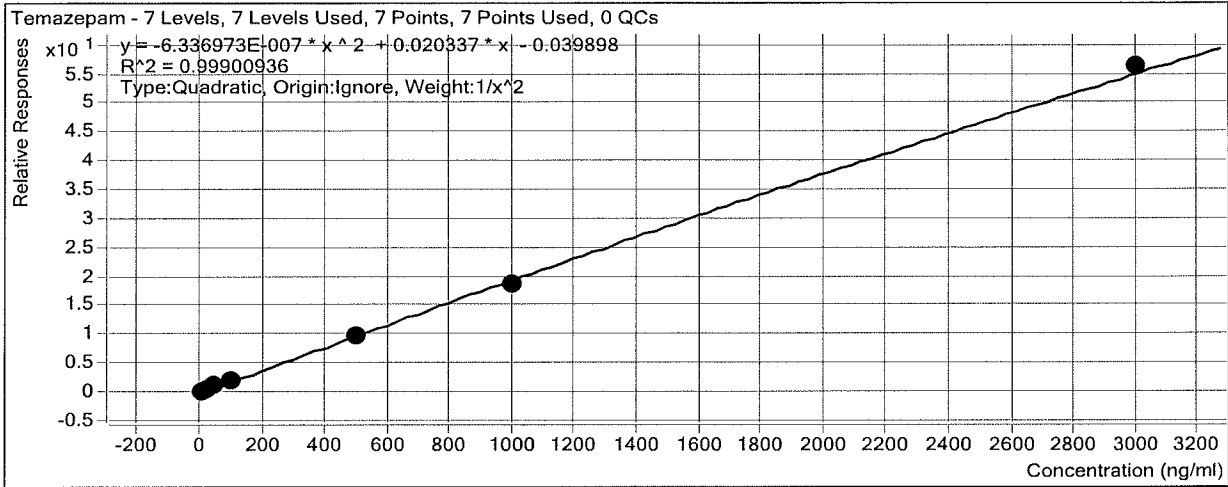
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	2	<input checked="" type="checkbox"/>	10	8.5	85.0
25 ng/mL	4	<input checked="" type="checkbox"/>	25	25.9	103.6
50 ng/mL	5	<input checked="" type="checkbox"/>	50	52.5	105.0
100 ng/mL	6	<input checked="" type="checkbox"/>	100	107.6	107.6
500 ng/mL	7	<input checked="" type="checkbox"/>	500	501.1	100.2
1000 ng/mL	8	<input checked="" type="checkbox"/>	1000	982.8	98.3
3000 ng/mL	9	<input checked="" type="checkbox"/>	3000	3007.4	100.2

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\9-13-17 urine benz\QuantResults\9-13-17 Urine BZO.batch.bin

Last Calib Update 9/13/2017 4:02 PM **Analyst Name** ISP TOX

Target Compound *Temazepam*
Internal Standard *Oxazepam D5 ISTD*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	2	<input checked="" type="checkbox"/>	10	9.8	98.4
25 ng/mL	4	<input checked="" type="checkbox"/>	25	25.9	103.5
50 ng/mL	5	<input checked="" type="checkbox"/>	50	50.3	100.6
100 ng/mL	6	<input checked="" type="checkbox"/>	100	101.7	101.7
500 ng/mL	7	<input checked="" type="checkbox"/>	500	493.7	98.7
1000 ng/mL	8	<input checked="" type="checkbox"/>	1000	951.9	95.2
3000 ng/mL	9	<input checked="" type="checkbox"/>	3000	3059.9	102.0

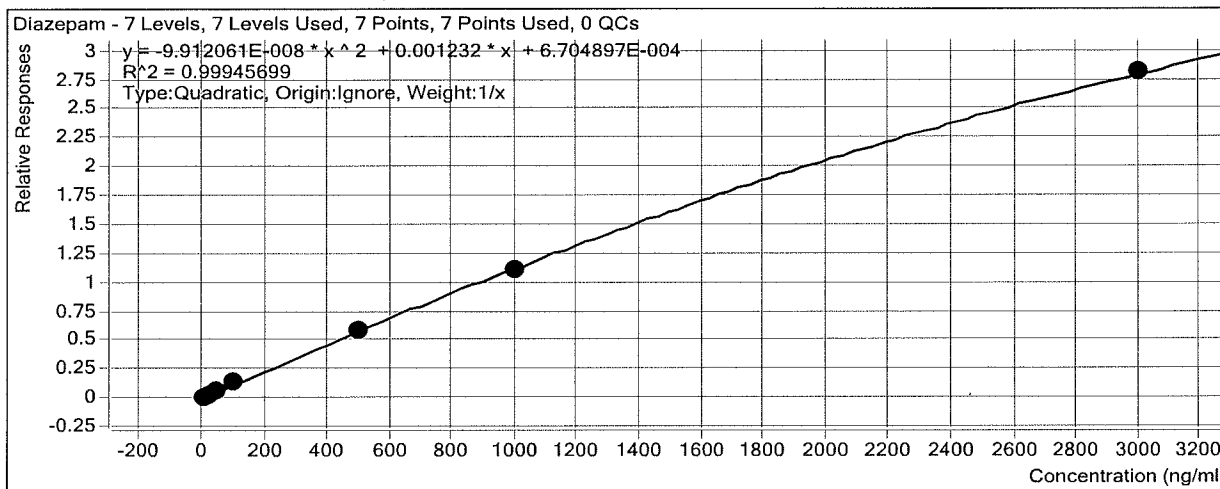
BW

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\9-13-17 urine benz\QuantResults\9-13-17 Urine BZO.batch.bin

Last Calib Update 9/13/2017 4:02 PM **Analyst Name** ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	2	<input checked="" type="checkbox"/>	10	8.4	83.6
25 ng/mL	4	<input checked="" type="checkbox"/>	25	25.4	101.6
50 ng/mL	5	<input checked="" type="checkbox"/>	50	53.7	107.4
100 ng/mL	6	<input checked="" type="checkbox"/>	100	109.3	109.3
500 ng/mL	7	<input checked="" type="checkbox"/>	500	498.4	99.7
1000 ng/mL	8	<input checked="" type="checkbox"/>	1000	982.3	98.2
3000 ng/mL	9	<input checked="" type="checkbox"/>	3000	3009.4	100.3

BZO

ISP FORENSICS - Cd'A Instrument # 62340

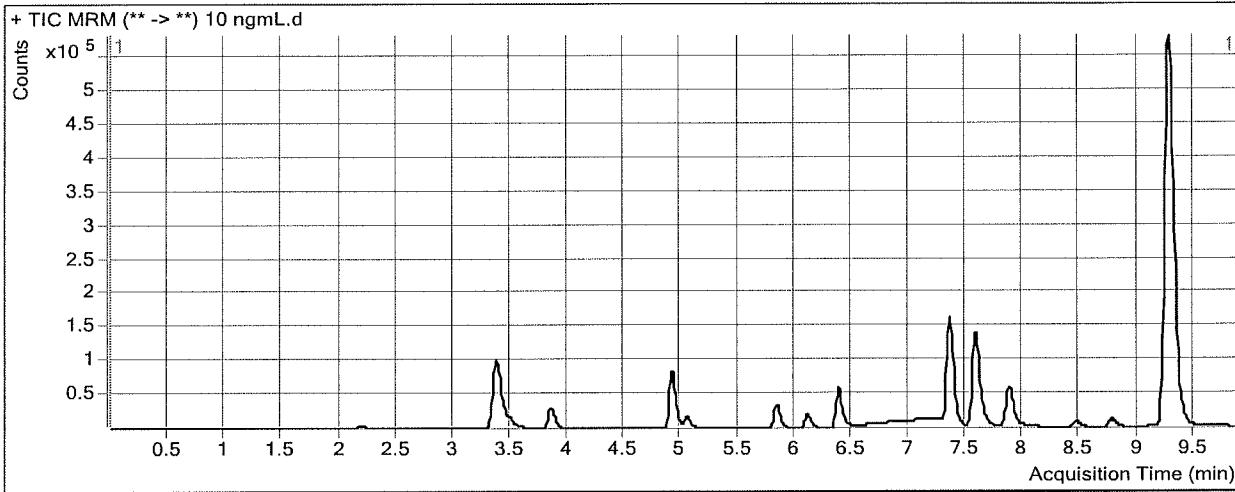
Benzodiazepine Analysis Report

Batch Data Path D:\2017 Data\9-13-17 urine benz\QuantResults\9-13-17 Urine BZO.batch.bin
Analysis Time 9/13/2017 4:02 PM **Analyst Name** ISP Tox
Report Time 9/13/2017 4:10 PM **Reporter Name** ISP Tox
Last Calib Update 9/13/2017 4:02 PM **Batch State** Processed

Analysis Info

Acq Time 2017-09-13 08:33 **Data File** 10 ngmL.d
Sample Type Calibration **Sample Name** 10 ngmL
Dilution 1 **Acq Method** Benzos_Z_Drugs_ACN_FA_ISP 2016.m
Position P1-A2 **Sample Info** ppd 9/12/17- Unextracted
Inj Vol -1 **Comment** AM 13 Benzo and Z by LCQQQ

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
7-Aminoclonazepam	7-Aminoflunitrazepam-D7 ISTD	2.192	11965	449704	0.0266	0.0000
7-Aminoflunitrazepam	7-Aminoflunitrazepam-D7 ISTD	3.503	33562	449704	0.0746	0.0000
zopiclone	Oxazepam D5 ISTD	3.848	82620	296992	0.2782	9.4802
zolpidem	Oxazepam D5 ISTD	4.911	236494	296992	0.7963	0.0000
Chlordiazepoxide	Nordiazepam-D5 ISTD	5.048	46209	92214	0.5011	8.7771
quetiapine	Oxazepam D5 ISTD	5.839	75327	296992	0.2536	0.0000
Midazolam	Clonazepam-D4 ISTD	6.109	61978	213065	0.2909	0.0000
Flurazepam	Diazepam-D5 ISTD	6.379	195467	1709927	0.1143	4.6672
Nitrazepam	Clonazepam-D4 ISTD	7.191	10375	213065	0.0487	9.8766
alpha-Hydroxyalprazolam	alphahydroxyalprazolam-D5 ISTD	7.389	2113	423734	0.0050	9.4943
alpha-hydroxytriazolam	Nordiazepam-D5 ISTD	7.438	5057	92214	0.0548	9.9177
Oxazepam	Oxazepam D5 ISTD	7.620	26534	296992	0.0893	9.8389
Nordiazepam	Nordiazepam-D5 ISTD	7.680	14486	92214	0.1571	8.6471
Clonazepam	Clonazepam-D4 ISTD	7.903	14981	213065	0.0703	8.2341
Lorazepam	Oxazepam D5 ISTD	7.985	7123	296992	0.0240	9.8554
Alprazolam	alphahydroxyalprazolam-D5 ISTD	8.054	8369	423734	0.0198	8.9628
Flunitrazepam	Clonazepam-D4 ISTD	8.455	36796	213065	0.1727	8.5048
Temazepam	Oxazepam D5 ISTD	8.765	47563	296992	0.1602	9.8396
Diazepam	Diazepam-D5 ISTD	9.369	18743	1709927	0.0110	8.3564

ISP FORENSICS - Cd'A Instrument # 62340

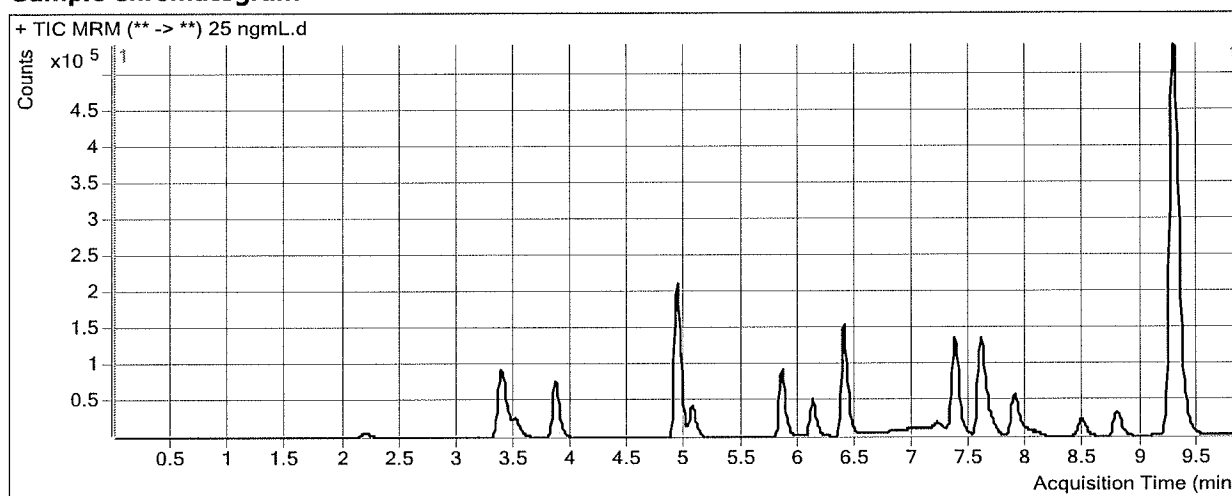
Benzodiazepine Analysis Report

Batch Data Path	D:\2017 Data\9-13-17 urine benz\QuantResults\9-13-17 Urine BZO.batch.bin		
Analysis Time	9/13/2017 4:02 PM	Analyst Name	ISP Tox
Report Time	9/13/2017 4:10 PM	Reporter Name	ISP Tox
Last Calib Update	9/13/2017 4:02 PM	Batch State	Processed

Analysis Info

Acq Time	2017-09-13 08:48	Data File	25 ngmL.d
Sample Type	Calibration	Sample Name	25 ngmL
Dilution	1	Acq Method	Benzos_Z_Drugs_ACN_FA_ISP 2016.m
Position	P1-A3	Sample Info	ppd 9/12/17- Unextracted
Inj Vol	-1	Comment	AM 13 Benzo and Z by LCQQQ

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
7-Aminoclonazepam	7-Aminoflunitrazepam-D7 ISTD	2.192	30817	369899	0.0833	21.7474
7-Aminoflunitrazepam	7-Aminoflunitrazepam-D7 ISTD	3.511	91118	369899	0.2463	22.1563
zopiclone	Oxazepam D5 ISTD	3.848	219337	272949	0.8036	28.3920
zolpidem	Oxazepam D5 ISTD	4.920	706451	272949	2.5882	21.7131
Chlordiazepoxide	Nordiazepam-D5 ISTD	5.056	131482	85353	1.5404	25.7862
quetiapine	Oxazepam D5 ISTD	5.847	266297	272949	0.9756	21.6462
Midazolam	Clonazepam-D4 ISTD	6.117	180108	177107	1.0169	20.9784
Flurazepam	Diazepam-D5 ISTD	6.387	508764	1588356	0.3203	24.6211
Nitrazepam	Clonazepam-D4 ISTD	7.200	26095	177107	0.1473	25.9191
alpha-Hydroxyalprazolam	alphahydroxyalprazolam-D5 ISTD	7.397	4119	349982	0.0118	23.0517
alpha-hydroxytriazolam	Nordiazepam-D5 ISTD	7.446	13650	85353	0.1599	24.3997
Oxazepam	Oxazepam D5 ISTD	7.628	73824	272949	0.2705	25.7647
Nordiazepam	Nordiazepam-D5 ISTD	7.689	42254	85353	0.4951	26.0525
Clonazepam	Clonazepam-D4 ISTD	7.912	42856	177107	0.2420	26.7933
Lorazepam	Oxazepam D5 ISTD	7.985	19823	272949	0.0726	25.8835
Alprazolam	alphahydroxyalprazolam-D5 ISTD	8.063	20491	349982	0.0585	25.4655
Flunitrazepam	Clonazepam-D4 ISTD	8.463	86672	177107	0.4894	25.8997
Temazepam	Oxazepam D5 ISTD	8.773	132563	272949	0.4857	25.8636
Diazepam	Diazepam-D5 ISTD	9.385	50686	1588356	0.0319	25.4033

ISP FORENSICS - Cd'A Instrument # 62340

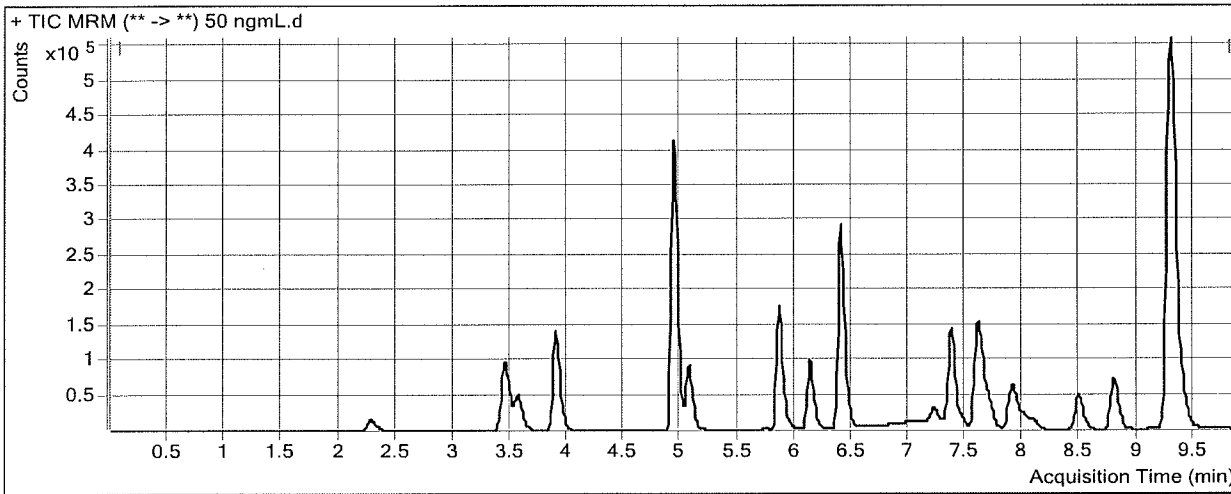
Benzodiazepine Analysis Report

Batch Data Path D:\2017 Data\9-13-17 urine benz\QuantResults\9-13-17 Urine BZO.batch.bin
Analysis Time 9/13/2017 4:02 PM **Analyst Name** ISP Tox
Report Time 9/13/2017 4:10 PM **Reporter Name** ISP Tox
Last Calib Update 9/13/2017 4:02 PM **Batch State** Processed

Analysis Info

Acq Time 2017-09-13 09:03 **Data File** 50 ngmL.d
Sample Type Calibration **Sample Name** 50 ngmL
Dilution 1 **Acq Method** Benzos_Z_Drugs_ACN_FA_ISP 2016.m
Position P1-A4 **Sample Info** ppd 9/12/17- Unextracted
Inj Vol -1 **Comment** AM 13 Benzo and Z by LCQQQ

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
7-Aminoclonazepam	7-Aminoflunitrazepam-D7 ISTD	2.283	65535	431902	0.1517	51.2943
7-Aminoflunitrazepam	7-Aminoflunitrazepam-D7 ISTD	3.562	171270	431902	0.3965	49.0579
zopiclone	Oxazepam D5 ISTD	3.890	392102	288845	1.3575	48.3378
zolpidem	Oxazepam D5 ISTD	4.936	1217135	288845	4.2138	50.1007
Chlordiazepoxide	Nordiazepam-D5 ISTD	5.073	281897	87836	3.2093	53.1825
quetiapine	Oxazepam D5 ISTD	5.856	412352	288845	1.4276	50.4798
Midazolam	Clonazepam-D4 ISTD	6.126	306585	193915	1.5810	50.6409
Flurazepam	Diazepam-D5 ISTD	6.387	992987	1643621	0.6041	52.3104
Nitrazepam	Clonazepam-D4 ISTD	7.208	56406	193915	0.2909	49.2985
alpha-Hydroxyalprazolam	alphahydroxyalprazolam-D5 ISTD	7.405	9777	363166	0.0269	53.3550
alpha-hydroxytriazolam	Nordiazepam-D5 ISTD	7.455	30800	87836	0.3507	50.6494
Oxazepam	Oxazepam D5 ISTD	7.637	160885	288845	0.5570	51.0168
Nordiazepam	Nordiazepam-D5 ISTD	7.697	89390	87836	1.0177	52.9729
Clonazepam	Clonazepam-D4 ISTD	7.929	91476	193915	0.4717	51.6984
Lorazepam	Oxazepam D5 ISTD	7.994	41577	288845	0.1439	49.4366
Alprazolam	alphahydroxyalprazolam-D5 ISTD	8.080	42729	363166	0.1177	50.7014
Flunitrazepam	Clonazepam-D4 ISTD	8.471	188604	193915	0.9726	52.5201
Temazepam	Oxazepam D5 ISTD	8.782	283518	288845	0.9816	50.3050
Diazepam	Diazepam-D5 ISTD	9.394	109365	1643621	0.0665	53.6836

[Handwritten Signature]

ISP FORENSICS - Cd'A Instrument # 62340

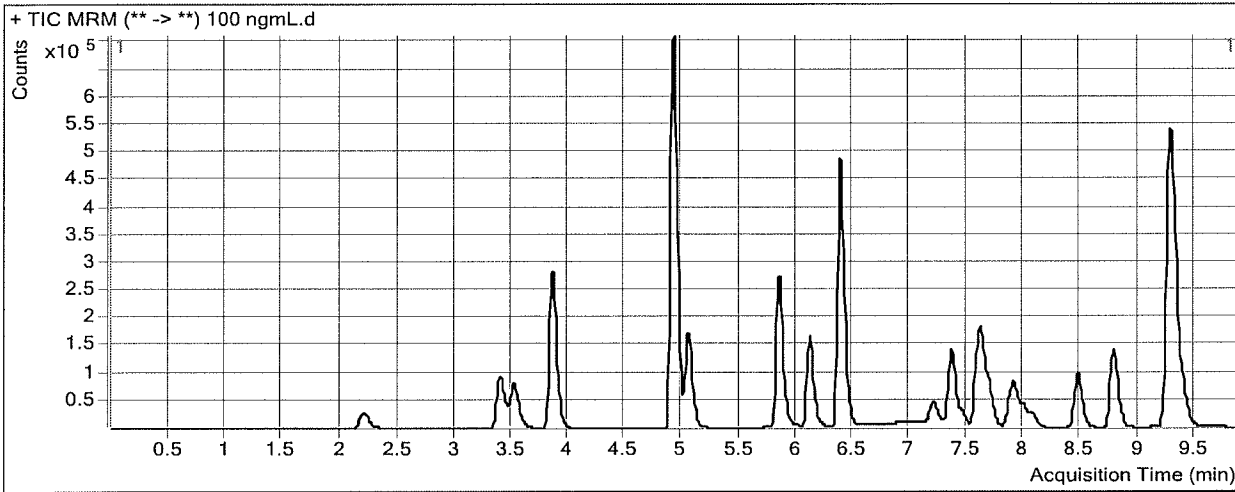
Benzodiazepine Analysis Report

Batch Data Path D:\2017 Data\9-13-17 urine benz\QuantResults\9-13-17 Urine BZO.batch.bin
Analysis Time 9/13/2017 4:02 PM **Analyst Name** ISP Tox
Report Time 9/13/2017 4:10 PM **Reporter Name** ISP Tox
Last Calib Update 9/13/2017 4:02 PM **Batch State** Processed

Analysis Info

Acq Time 2017-09-13 09:18 **Data File** 100 ngmL.d
Sample Type Calibration **Sample Name** 100 ngmL
Dilution 1 **Acq Method** Benzos_Z_Drugs_ACN_FA_ISP 2016.m
Position P1-A5 **Sample Info** ppd 9/12/17- Unextracted
Inj Vol -1 **Comment** AM 13 Benzo and Z by LCQQQ

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
7-Aminoclonazepam	7-Aminoflunitrazepam-D7 ISTD	2.208	119486	411975	0.2900	111.0134
7-Aminoflunitrazepam	ISTD	3.520	316475	411975	0.7682	116.2988
zopiclone	Oxazepam D5 ISTD	3.857	822571	277013	2.9694	106.4307
zolpidem	Oxazepam D5 ISTD	4.920	2171368	277013	7.8385	113.9450
Chlordiazepoxide	Nordiazepam-D5 ISTD	5.056	536871	84573	6.3480	104.9916
quetiapine	Oxazepam D5 ISTD	5.847	666500	277013	2.4060	113.1431
Midazolam	Clonazepam-D4 ISTD	6.117	529934	188055	2.8180	115.9498
Flurazepam	Diazepam-D5 ISTD	6.379	1674020	1585972	1.0555	96.8214
Nitrazepam	Clonazepam-D4 ISTD	7.200	114022	188055	0.6063	100.8302
alpha-Hydroxyalprazolam	alphanhydroxyalprazolam-D5 ISTD	7.397	19318	357598	0.0540	107.6229
alpha-hydroxytriazolam	Nordiazepam-D5 ISTD	7.446	61776	84573	0.7304	102.7824
Oxazepam	Oxazepam D5 ISTD	7.620	308599	277013	1.1140	100.3152
Nordiazepam	Nordiazepam-D5 ISTD	7.689	170908	84573	2.0208	104.6568
Clonazepam	Clonazepam-D4 ISTD	7.912	186468	188055	0.9916	108.3289
Lorazepam	Oxazepam D5 ISTD	7.985	84782	277013	0.3061	103.2249
Alprazolam	alphanhydroxyalprazolam-D5 ISTD	8.063	84613	357598	0.2366	101.8486
Flunitrazepam	Clonazepam-D4 ISTD	8.455	369847	188055	1.9667	107.5767
Temazepam	Oxazepam D5 ISTD	8.773	559900	277013	2.0212	101.6687
Diazepam	Diazepam-D5 ISTD	9.385	212767	1585972	0.1342	109.2832

ISP FORENSICS - Cd'A Instrument # 62340

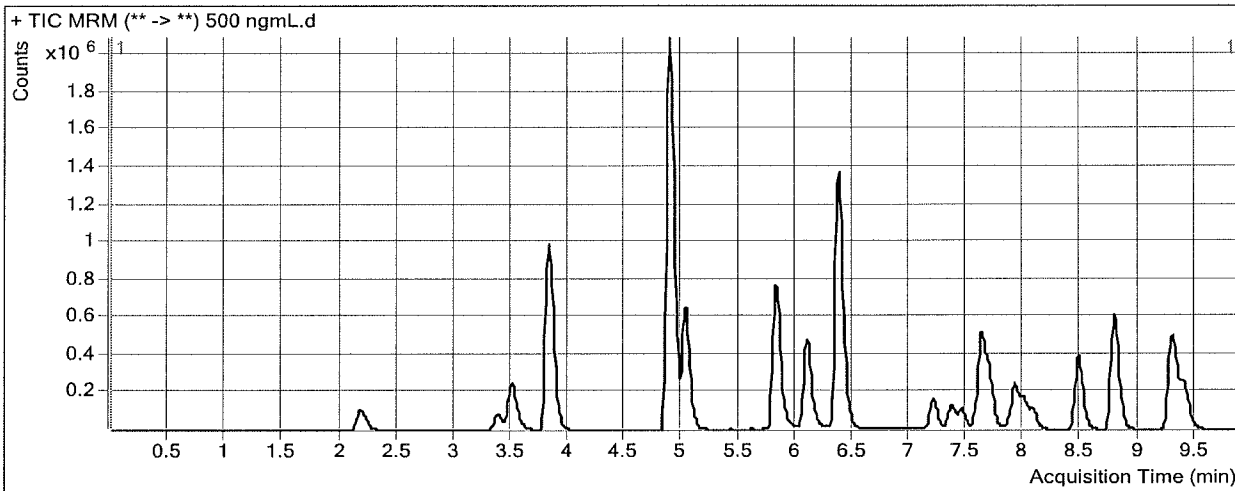
Benzodiazepine Analysis Report

Batch Data Path D:\2017 Data\9-13-17 urine benz\QuantResults\9-13-17 Urine BZO.batch.bin
Analysis Time 9/13/2017 4:02 PM **Analyst Name** ISP Tox
Report Time 9/13/2017 4:10 PM **Reporter Name** ISP Tox
Last Calib Update 9/13/2017 4:02 PM **Batch State** Processed

Analysis Info

Acq Time 2017-09-13 09:33 **Data File** 500 ngmL.d
Sample Type Calibration **Sample Name** 500 ngmL
Dilution 1 **Acq Method** Benzos_Z_Drugs_ACN_FA_ISP 2016.m
Position P1-A6 **Sample Info** ppd 9/12/17- Unextracted
Inj Vol -1 **Comment** AM 13 Benzo and Z by LCQQQ

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
7-Aminoclonazepam	7-Aminoflunitrazepam-D7 ISTD	2.182	464997	388111	1.1981	503.1406
7-Aminoflunitrazepam	ISTD	3.503	1050074	388111	2.7056	484.3449
zopiclone	Oxazepam D5 ISTD	3.823	3176401	245570	12.9348	467.1273
zolpidem	Oxazepam D5 ISTD	4.886	7179001	245570	29.2340	507.6459
Chlordiazepoxide	Nordiazepam-D5 ISTD	5.031	2179995	76025	28.6749	485.0081
quetiapine	Oxazepam D5 ISTD	5.821	2079340	245570	8.4674	509.0316
Midazolam	Clonazepam-D4 ISTD	6.101	1690577	167632	10.0851	507.2950
Flurazepam	Diazepam-D5 ISTD	6.362	5423957	1477563	3.6709	367.5729
Nitrazepam	Clonazepam-D4 ISTD	7.200	496005	167632	2.9589	492.0640
alpha-Hydroxyalprazolam	alphahydroxyalprazolam-D5 ISTD	7.397	75605	306669	0.2465	495.7115
alpha-hydroxytriazolam	Nordiazepam-D5 ISTD	7.446	275415	76025	3.6227	494.0017
Oxazepam	Oxazepam D5 ISTD	7.628	1360755	245570	5.5412	502.3874
Nordiazepam	Nordiazepam-D5 ISTD	7.689	730412	76025	9.6076	496.1103
Clonazepam	Clonazepam-D4 ISTD	7.912	755698	167632	4.5081	502.3390
Lorazepam	Oxazepam D5 ISTD	7.994	358686	245570	1.4606	496.7594
Alprazolam	alphahydroxyalprazolam-D5 ISTD	8.071	392950	306669	1.2813	573.7549
Flunitrazepam	Clonazepam-D4 ISTD	8.463	1485556	167632	8.8620	501.1317
Temazepam	Oxazepam D5 ISTD	8.782	2418027	245570	9.8466	493.7249
Diazepam	Diazepam-D5 ISTD	9.394	872039	1477563	0.5902	498.3673

ISP FORENSICS - Cd'A Instrument # 62340

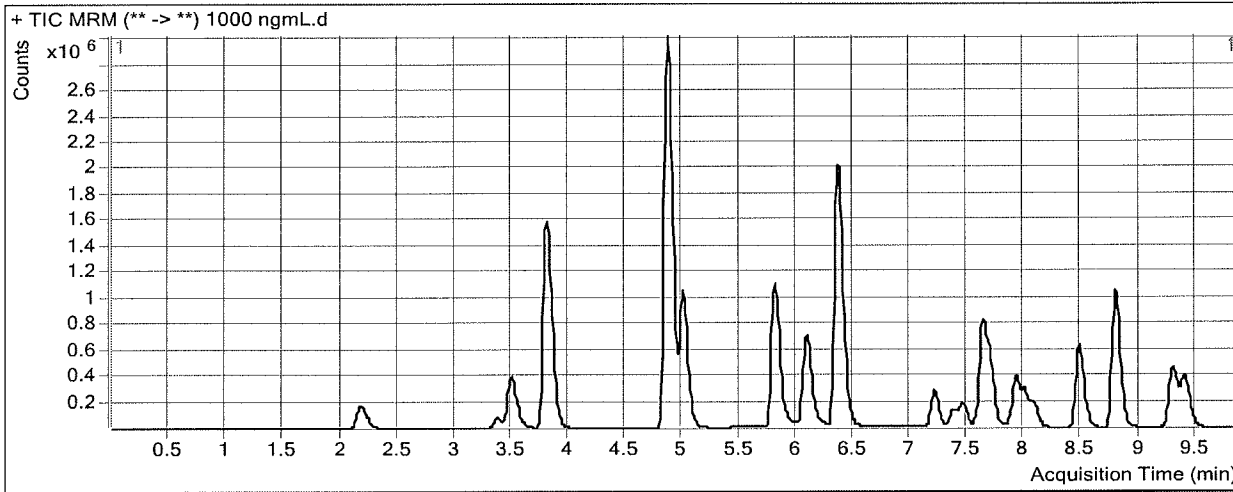
Benzodiazepine Analysis Report

Batch Data Path D:\2017 Data\9-13-17 urine benz\QuantResults\9-13-17 Urine BZO.batch.bin
Analysis Time 9/13/2017 4:02 PM **Analyst Name** ISP Tox
Report Time 9/13/2017 4:10 PM **Reporter Name** ISP Tox
Last Calib Update 9/13/2017 4:02 PM **Batch State** Processed

Analysis Info

Acq Time 2017-09-13 09:47 **Data File** 1000 ngmL.d
Sample Type Calibration **Sample Name** 1000 ngmL
Dilution 1 **Acq Method** Benzos_Z_Drugs_ACN_FA_ISP 2016.m
Position P1-A7 **Sample Info** ppd 9/12/17- Unextracted
Inj Vol -1 **Comment** AM 13 Benzo and Z by LCQQQ

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
7-Aminoclonazepam	7-Aminoflunitrazepam-D7 ISTD	2.182	854036	368045	2.3205	987.8044
7-Aminoflunitrazepam	7-Aminoflunitrazepam-D7 ISTD	3.503	1681271	368045	4.5681	871.7461
zopiclone	Oxazepam D5 ISTD	3.798	5645519	224821	25.1111	911.5498
zolpidem	Oxazepam D5 ISTD	4.861	11759078	224821	52.3041	970.9562
Chlordiazepoxide	Nordiazepam-D5 ISTD	5.006	3796294	66176	57.3669	1007.3480
quetiapine	Oxazepam D5 ISTD	5.813	3439039	224821	15.2968	972.2769
Midazolam	Clonazepam-D4 ISTD	6.092	2740628	149162	18.3735	970.9522
Flurazepam	Diazepam-D5 ISTD	6.354	8905700	1355983	6.5677	698.9830
Nitrazepam	Clonazepam-D4 ISTD	7.208	872594	149162	5.8500	990.8741
alpha-Hydroxyalprazolam	alphahydroxyalprazolam-D5 ISTD	7.405	144532	295078	0.4898	992.7572
alpha-hydroxytriazolam	Nordiazepam-D5 ISTD	7.455	496395	66176	7.5012	1003.5066
Oxazepam	Oxazepam D5 ISTD	7.628	2256341	224821	10.0362	931.2800
Nordiazepam	Nordiazepam-D5 ISTD	7.697	1272658	66176	19.2315	994.1335
Clonazepam	Clonazepam-D4 ISTD	7.920	1273847	149162	8.5400	980.4638
Lorazepam	Oxazepam D5 ISTD	7.994	605985	224821	2.6954	940.3127
Alprazolam	alphahydroxyalprazolam-D5 ISTD	8.071	572517	295078	1.9402	896.1183
Flunitrazepam	Clonazepam-D4 ISTD	8.463	2505744	149162	16.7988	982.8214
Temazepam	Oxazepam D5 ISTD	8.782	4214352	224821	18.7453	951.9270
Diazepam	Diazepam-D5 ISTD	9.394	1512595	1355983	1.1155	982.2866

ISP FORENSICS - Cd'A Instrument # 62340

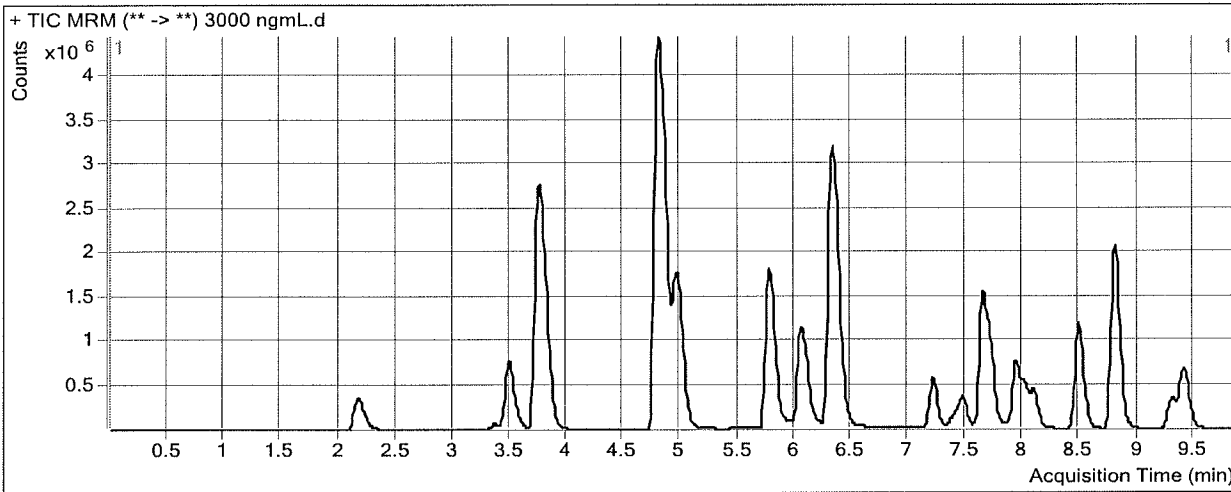
Benzodiazepine Analysis Report

Batch Data Path D:\2017 Data\9-13-17 urine benz\QuantResults\9-13-17 Urine BZO.batch.bin
Analysis Time 9/13/2017 4:02 PM **Analyst Name** ISP Tox
Report Time 9/13/2017 4:10 PM **Reporter Name** ISP Tox
Last Calib Update 9/13/2017 4:02 PM **Batch State** Processed

Analysis Info

Acq Time 2017-09-13 10:02 **Data File** 3000 ngmL.d
Sample Type Calibration **Sample Name** 3000 ngmL
Dilution 1 **Acq Method** Benzos_Z_Drugs_ACN_FA_ISP 2016.m
Position P1-A8 **Sample Info** ppd 9/12/17- Unextracted
Inj Vol -1 **Comment** AM 13 Benzo and Z by LCQQQ

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
7-Aminoclonazepam	7-Aminoflunitrazepam-D7 ISTD	2.173	1607268	288370	5.5736	2392.5992
7-Aminoflunitrazepam	7-Aminoflunitrazepam-D7 ISTD	3.495	3338245	288370	11.5763	3005.1840
zopiclone	Oxazepam D5 ISTD	3.748	12607944	150234	83.9221	3119.1237
zolpidem	Oxazepam D5 ISTD	4.803	19057462	150234	126.8520	3014.2089
Chlordiazepoxide	Nordiazepam-D5 ISTD	4.973	7917650	41787	189.4777	4485.4843
quetiapine	Oxazepam D5 ISTD	5.771	6302762	150234	41.9530	3008.8582
Midazolam	Clonazepam-D4 ISTD	6.059	5538579	109282	50.6815	3009.6753
Flurazepam	Diazepam-D5 ISTD	6.321	17637209	1010655	17.4513	3010.2713
Nitrazepam	Clonazepam-D4 ISTD	7.208	1787617	109282	16.3578	3019.8472
alpha-Hydroxyalprazolam	alphahydroxyalprazolam-D5 ISTD	7.405	331849	231088	1.4360	3003.0267
alpha-hydroxytriazolam	Nordiazepam-D5 ISTD	7.463	999318	41787	23.9147	2999.7392
Oxazepam	Oxazepam D5 ISTD	7.637	4367140	150234	29.0689	3086.6591
Nordiazepam	Nordiazepam-D5 ISTD	7.706	2411900	41787	57.7193	3002.4278
Clonazepam	Clonazepam-D4 ISTD	7.929	2488445	109282	22.7708	3007.9615
Lorazepam	Oxazepam D5 ISTD	8.002	1151585	150234	7.6653	3081.8960
Alprazolam	alphahydroxyalprazolam-D5 ISTD	8.080	1199168	231088	5.1892	3038.7168
Flunitrazepam	Clonazepam-D4 ISTD	8.471	4820182	109282	44.1077	3007.4325
Temazepam	Oxazepam D5 ISTD	8.790	8451547	150234	56.2559	3059.8708
Diazepam	Diazepam-D5 ISTD	9.402	2841402	1010655	2.8114	3009.3883

**Idaho State Police
Forensic Services
Toxicology Discipline**

Request for Departure from an Analytical Method

Date of Request
8/30/2017

Forensic Scientist
Britany Wylie

Analytical Method
AM 13 - LCMS-QQQ Confirmation of Benzodiazepines and Z-drugs in Blood and Urine

Request

I am requesting a deviation to prepare the calibrator working solutions using serial dilution. I will prepare the 10ug/mL working solution as defined in the AM, however the 1ug/mL calibrator working solution will be prepared by using 1mL of the 10ug/mL solution and diluting to 10mL total volume. We have seen in the past a large shift in instrument response between the 2 calibrator points where the 1 vs 10ug/mL solutions are used. This is not a quantitative analytical method, therefore no reported values will be effected. Using serial dilution will reduce the volume of stock solution used and decrease the likelihood of the large response shift between the 2 different working solutions. Once the next run has been completed preparation will be assessed and a change to the AM may occur.

Discipline Leader Review

Departure approved
Comments:

Departure Not Approved
Comments:

Glenn Strum

Date: 08/31/2017

EW