









Worklist: 3134

<u>LAB_CASE</u>	<u>ITEM</u>	<u>TASK_ID</u>	<u>DESCRIPTION</u>	
C2019-0323	2	146794	AM 13 Urine LCMS-QQQ Benzodiazepines and ;	
C2019-0445	1	145925	AM 13 Urine LCMS-QQQ Benzodiazepines and ;	
M2019-0876	3	145932	AM 13 Urine LCMS-QQQ Benzodiazepines and ;	
P2019-0781	1	145933	AM 13 Urine LCMS-QQQ Benzodiazepines and ;	
P2019-0830	1	145934	AM 13 Urine LCMS-QQQ Benzodiazepines and ;	
P2019-0883	1	145923	AM 13 Urine LCMS-QQQ Benzodiazepines and ;	
P2019-0922	1	145927	AM 13 Urine LCMS-QQQ Benzodiazepines and ;	
P2019-0924	1	146793	AM 13 Urine LCMS-QQQ Benzodiazepines and ;	

AM 13: Benzo and Z-Drugs LCMS Urine Extraction

Extraction Date: 03/26/19
Negative Blood/Urine Lot: POC031319
Positive Control Working Solution Lot: WS013119
Calibrator Working Solution Lot #'s: WS021319
Oxazepam Glucuronide Lot: Alltech 715-5035
LC Column: Agilent Poroshell 120 EC-C18 (2.1x75mm; 2.7 Micron)

Analyst: Celena Shrum
LCMS-QQQ ID: Abby
b-glucuronidase Lot: Kura 4150

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. Prep Non-Extracted Calibrators:

Level	ng/mL	Working Solution (ng/μL)	Volume to add (μL)
Blank	-	-	-
1	10	1	10
2	25	1	25
3	50	1	50
4	100	1	100
5	500	10	50
6	1000	10	100
7	3000 (Urine)	10	300

Analytic:

- 1. Remove working solutions, external control, negative urine and case samples from cold storage.
- 2. **Blood:** Add 1mL samples, and controls to Extraction tube. **Urine:** To each labeled round bottomed tube add 1mL sample, using negative blood or urine sample for both negative and positive control. Positive control: spike negative blood or urine with 300uL positive control working solution. Urine Required additional glucuronide positive and negative controls.
- 3. To all samples: add 100uL Internal Standard Working Solution.
- 4. For Urine Only: Glucuronide Cleaving:
 - 4.1. Add 20uL of 2M Acetate buffer to all urine samples, Vortex.
 - 4.2. To all but negative glucuronide control: add 76uL Kura b-glucuronidase. Cap and gently rock.
 - 4.3. Place in oven at ~60C for approx. 30 minutes.
- 5. Add 4mL water to all extraction tubes. Urine Samples: Transfer into the extraction tubes.
- 6. Place on tube rocker at ambient temp for ~ 10 minutes.
- 7. Centrifuge for ~ 10 min at ~2500rpm.
Optional: To break up emulsions: re-centrifuge at ~3000rpm for ~5 minutes
- 8. Transfer solvent to tapered bottom tube and evaporate to dryness under nitrogen @ 37C.
- 9. Reconstitute with 100uL of 9:1 mobile phase A:B
- 10. Transfer to labeled ALS vial with insert.
- 11. Run using appropriate LCMS Instrument Acquisition.

Post-Analytic

- 1. Complete Data Analysis on all samples and corresponding sample blanks
LCMS Data Path: C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3134 Urine 032919 CS\QuantResults\am 13 worklist 3134
- 2. Did positive and negative control samples provide intended response? Y / N
- 3. RT within +/-5% of Calibrators; Ion Ratios within +/- 20% of the calibrator average for the run.
- 4. Central File Packet to include: LIMS Worklist, Method Checklist, Working solution prep sheet, and Control sample LCMS data printouts.

Comments:

The samples were extracted on 3/26/19 and run on the instrument the same day. There was an issue with the instrument and nothing showed up (no ISTD or compound peaks). After troubleshooting, the instrument was fixed and the samples were reinjected on 03/29/19 with no issues.



Idaho State Police Forensic Services

AM #13 LCMS-QQQ Confirmation of Benzodiazepines and Z-Drugs in Blood and Urine

<i>Reagent</i>	<i>Lot Number</i>	<i>Expiration Date</i>	<i>Date in Service</i>
Negative Urine	POC031319	N/A	03/13/2019
Positive Control	WS013119	01/31/2020	01/31/2019
Calibrator Solution	WS021319	02/13/2020	02/13/2019
ISTD Solution	WS121418	09/30/2019	12/14/2018

Positive Control Working Solution (Lot: WS013119)

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
Benzodiazepines Mix	Cerilliant	FE012413-02
Methanol (ACS Grade)	Ricca	1601824

ISTD Working Solution (Lot: WS121419)

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>	<i>Expiration Date</i>
7-aminoflunitrazepam-D7	Cerilliant	FN10021503	October 2020
Alphahydroxyalprazolam-D5	Cerilliant	FN12291401	January 2020
Clonazepam-D4	Cerilliant	FE04181601	April 2021
Diazepam-D5	Cerilliant	FE07091401	September 2019
Nordiazepam-D5	Cerilliant	FE10081402	October 2019
Oxazepam-D5	Cerilliant	FE10021401	October 2019
Temazepam-D5	Cerilliant	FE11111401	December 2019
Methanol	Ricca	1601824	N/A

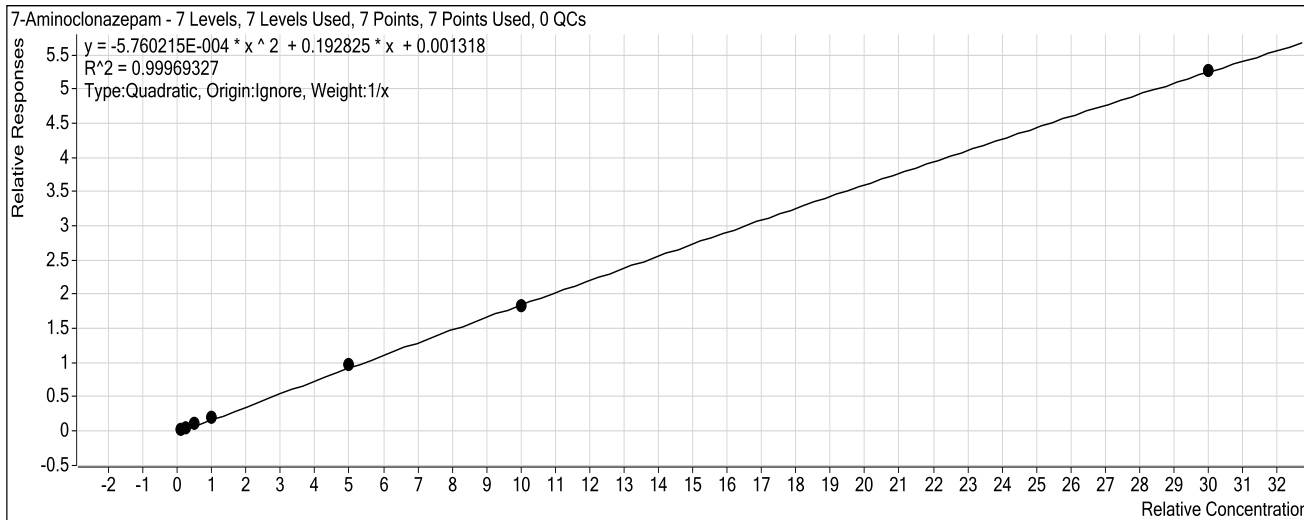
Calibrator Working Solution (Lot: WS021319)

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>	<i>Expiration Date</i>
7-aminoclonazepam	Cerilliant	FN10281402	January 2020
7-aminoflunitrazepam	Cerilliant	FN01271505	February 2020
Alpha-hydroxyalprazolam	Cerilliant	FN07051601	July 2021
Alpha-hydroxytriazolam	Cerilliant	FE12281601	January 2022
Alprazolam	Cerilliant	FE07161509	July 2020
Chlordiazepoxide	Cerilliant	FE07241502	August 2020
Clonazepam	Cerilliant	FE07211504	August 2020
Diazepam	Cerilliant	FE05201602	June 2021
Flunitrazepam	Cerilliant	FE01051503	January 2020
Flurazepam	Cerilliant	FE02101501	April 2020
Lorazepam	Cerilliant	FE10151502	October 2020
Midazolam	Cerilliant	FE01161704	April 2022
Nitrazepam	Cerilliant	FE08241602	September 2021
Nordiazepam	Cerilliant	FE11181503	November 2020
Oxazepam	Cerilliant	FE05261603	June 2020
Quetiapine	Cerilliant	FN08291602	October 2021
Temazepam	Cerilliant	FE11301602	January 2022
Zolpidem	Cerilliant	FE12181402	February 2020
Zopiclone	Cerilliant	FE12031501	December 2020
Methanol	Ricca	1601824	N/A

ISP Forensics Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3134 Urine 032919 CS\QuantResults\am 13 worklist 3134.batch.bin
Last Calib Update 4/1/2019 7:50 AM **Analyst Name** ISP TOX

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

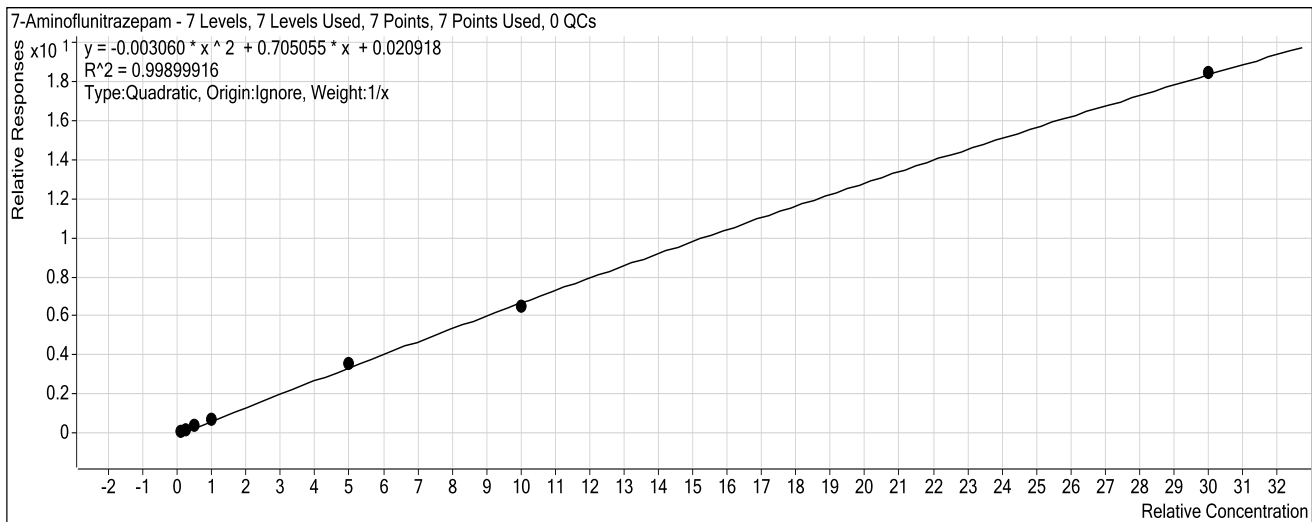


Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	1	<input checked="" type="checkbox"/>	10	9.9	98.9
25 ng/mL	2	<input checked="" type="checkbox"/>	25	23.5	94.0
50 ng/mL	3	<input checked="" type="checkbox"/>	50	53.2	106.5
100 ng/mL	4	<input checked="" type="checkbox"/>	100	99.6	99.6
500 ng/mL	5	<input checked="" type="checkbox"/>	500	515.4	103.1
1000 ng/mL	6	<input checked="" type="checkbox"/>	1000	978.3	97.8
3000 ng/mL	7	<input checked="" type="checkbox"/>	3000	3005.2	100.2

ISP Forensics Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3134 Urine 032919 CS\QuantResults\am 13 worklist 3134.batch.bin
Last Calib Update 4/1/2019 7:50 AM **Analyst Name** ISP TOX

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

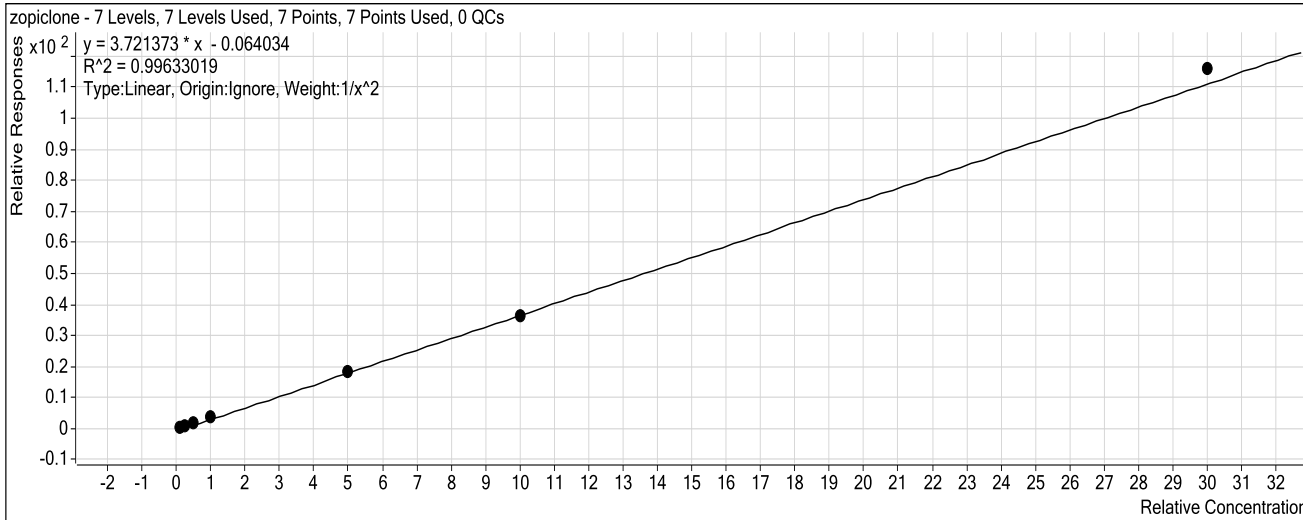


Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	1	<input checked="" type="checkbox"/>	10	8.9	88.5
25 ng/mL	2	<input checked="" type="checkbox"/>	25	22.8	91.2
50 ng/mL	3	<input checked="" type="checkbox"/>	50	58.3	116.7
100 ng/mL	4	<input checked="" type="checkbox"/>	100	103.3	103.3
500 ng/mL	5	<input checked="" type="checkbox"/>	500	518.3	103.7
1000 ng/mL	6	<input checked="" type="checkbox"/>	1000	963.0	96.3
3000 ng/mL	7	<input checked="" type="checkbox"/>	3000	3011.0	100.4

ISP Forensics Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3134 Urine 032919 CS\QuantResults\am 13 worklist 3134.batch.bin
Last Calib Update 4/1/2019 7:50 AM **Analyst Name** ISP TOX

Target Compound zopiclone
Internal Standard Nordiazepam-D5 ISTD



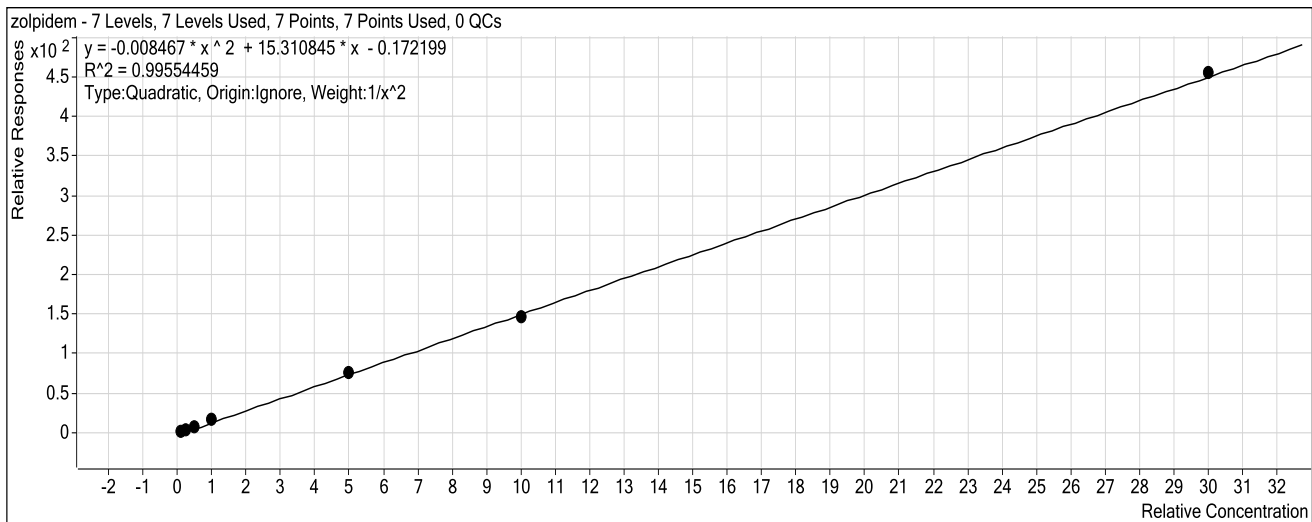
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	1	<input checked="" type="checkbox"/>	10	10.3	103.4
25 ng/mL	2	<input checked="" type="checkbox"/>	25	22.5	90.2
50 ng/mL	3	<input checked="" type="checkbox"/>	50	49.9	99.7
100 ng/mL	4	<input checked="" type="checkbox"/>	100	106.0	106.0
500 ng/mL	5	<input checked="" type="checkbox"/>	500	491.2	98.2
1000 ng/mL	6	<input checked="" type="checkbox"/>	1000	984.3	98.4
3000 ng/mL	7	<input checked="" type="checkbox"/>	3000	3122.3	104.1

ISP Forensics Calibration Curve Report

CS

Batch Data Path C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3134 Urine 032919 CS\QuantResults\am 13 worklist 3134.batch.bin
Last Calib Update 4/1/2019 7:50 AM **Analyst Name** ISP TOX

Target Compound zolpidem
Internal Standard Nordiazepam-D5 ISTD



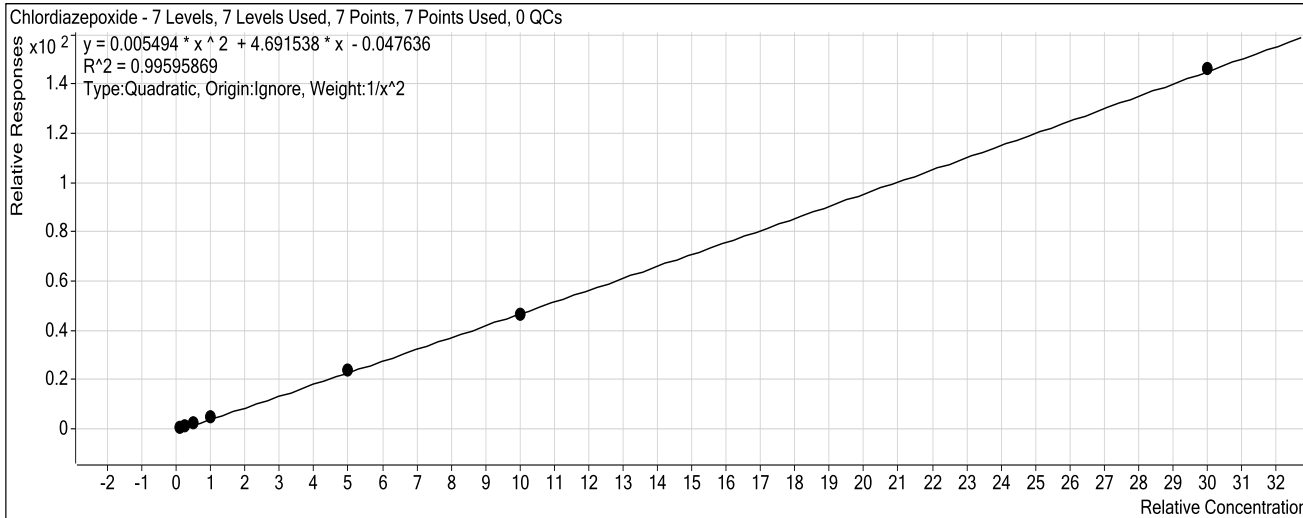
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	1	<input checked="" type="checkbox"/>	10	10.3	102.9
25 ng/mL	2	<input checked="" type="checkbox"/>	25	22.3	89.1
50 ng/mL	3	<input checked="" type="checkbox"/>	50	52.3	104.7
100 ng/mL	4	<input checked="" type="checkbox"/>	100	106.3	106.3
500 ng/mL	5	<input checked="" type="checkbox"/>	500	496.4	99.3
1000 ng/mL	6	<input checked="" type="checkbox"/>	1000	968.8	96.9
3000 ng/mL	7	<input checked="" type="checkbox"/>	3000	3029.2	101.0

ISP Forensics Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3134 Urine 032919 CS\QuantResults\am 13 worklist 3134.batch.bin

Last Calib Update 4/1/2019 7:50 AM **Analyst Name** ISP TOX

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

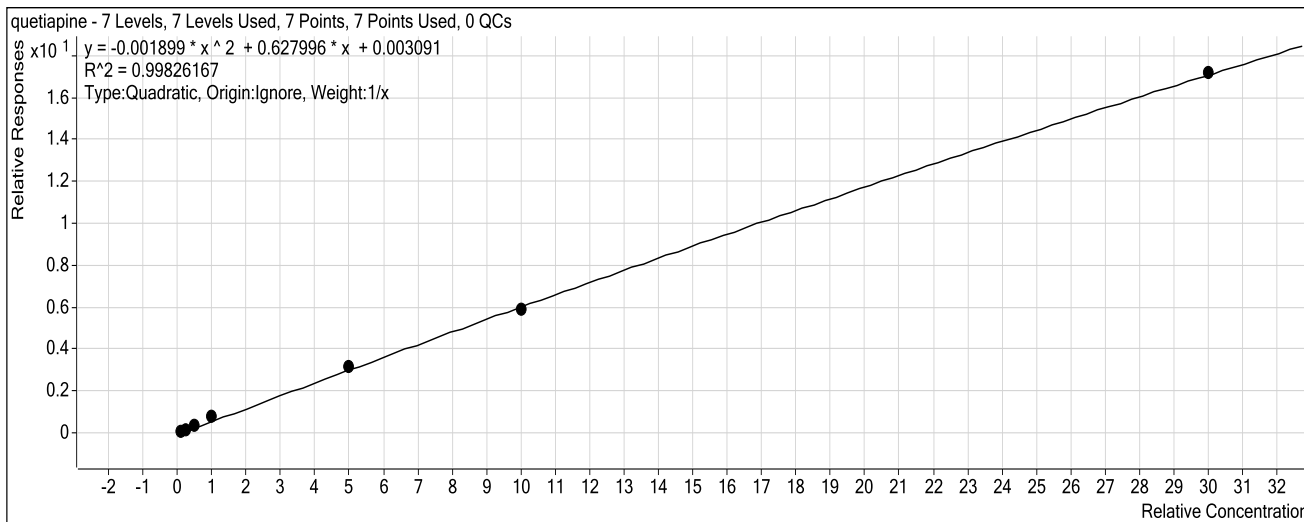


Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	1	<input checked="" type="checkbox"/>	10	10.3	103.2
25 ng/mL	2	<input checked="" type="checkbox"/>	25	22.3	89.1
50 ng/mL	3	<input checked="" type="checkbox"/>	50	51.4	102.7
100 ng/mL	4	<input checked="" type="checkbox"/>	100	106.7	106.7
500 ng/mL	5	<input checked="" type="checkbox"/>	500	499.1	99.8
1000 ng/mL	6	<input checked="" type="checkbox"/>	1000	980.0	98.0
3000 ng/mL	7	<input checked="" type="checkbox"/>	3000	3014.7	100.5

ISP Forensics Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3134 Urine 032919 CS\QuantResults\am 13 worklist 3134.batch.bin
Last Calib Update 4/1/2019 7:50 AM **Analyst Name** ISP TOX

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

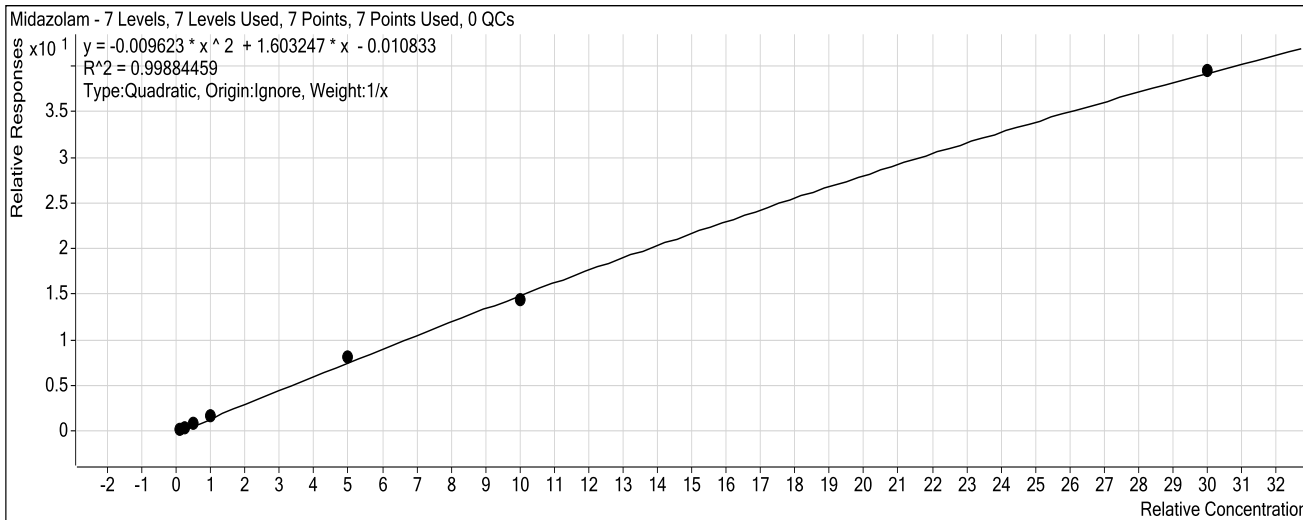


Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	1	<input checked="" type="checkbox"/>	10	7.9	78.9
25 ng/mL	2	<input checked="" type="checkbox"/>	25	22.8	91.2
50 ng/mL	3	<input checked="" type="checkbox"/>	50	56.5	113.1
100 ng/mL	4	<input checked="" type="checkbox"/>	100	119.4	119.4
500 ng/mL	5	<input checked="" type="checkbox"/>	500	504.9	101.0
1000 ng/mL	6	<input checked="" type="checkbox"/>	1000	960.6	96.1
3000 ng/mL	7	<input checked="" type="checkbox"/>	3000	3013.2	100.4

ISP Forensics Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3134 Urine 032919 CS\QuantResults\am 13 worklist 3134.batch.bin
Last Calib Update 4/1/2019 7:50 AM **Analyst Name** ISP TOX

Target Compound Midazolam
Internal Standard Clonazepam-D4 ISTD



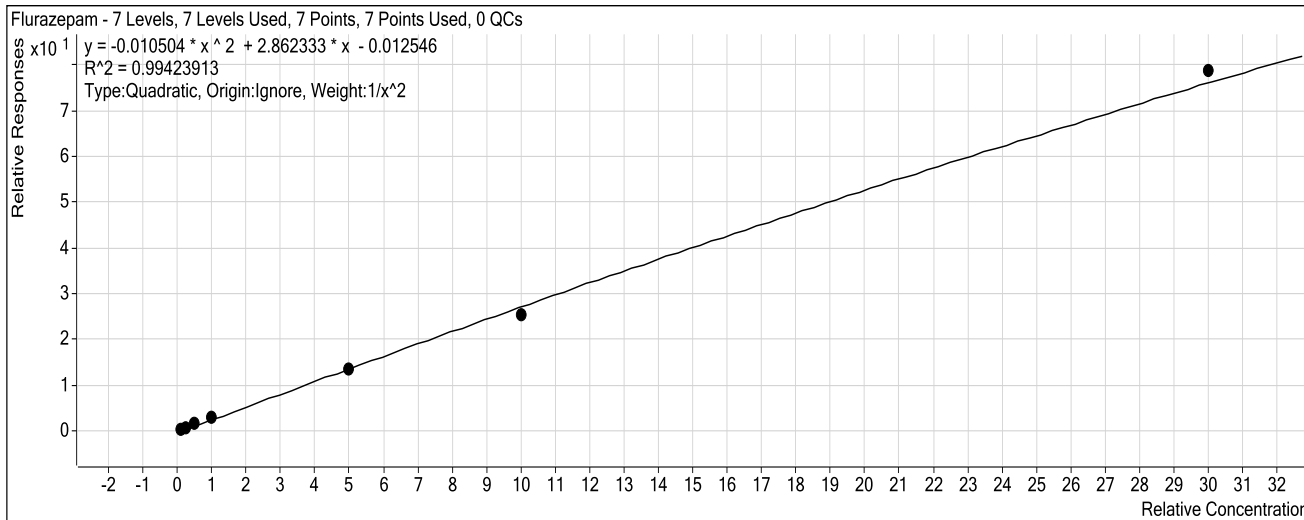
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	1	<input checked="" type="checkbox"/>	10	9.1	91.5
25 ng/mL	2	<input checked="" type="checkbox"/>	25	22.8	91.0
50 ng/mL	3	<input checked="" type="checkbox"/>	50	55.1	110.3
100 ng/mL	4	<input checked="" type="checkbox"/>	100	106.6	106.6
500 ng/mL	5	<input checked="" type="checkbox"/>	500	523.5	104.7
1000 ng/mL	6	<input checked="" type="checkbox"/>	1000	954.8	95.5
3000 ng/mL	7	<input checked="" type="checkbox"/>	3000	3014.6	100.5

ISP Forensics Calibration Curve Report

CS

Batch Data Path C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3134 Urine 032919 CS\QuantResults\am 13 worklist 3134.batch.bin
Last Calib Update 4/1/2019 7:50 AM **Analyst Name** ISP TOX

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



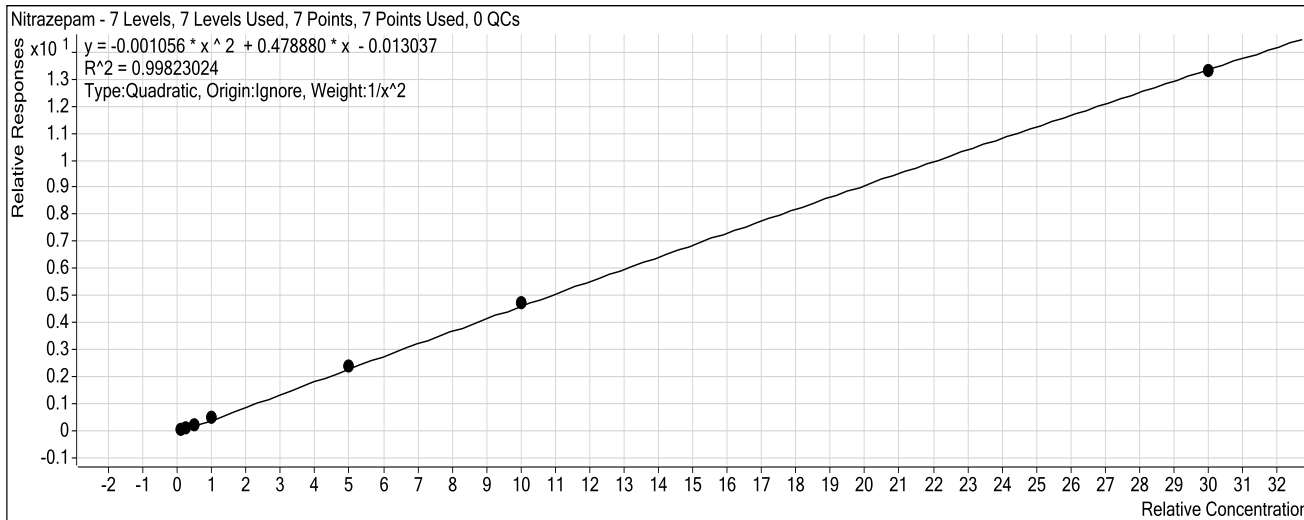
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ngmL	1	<input checked="" type="checkbox"/>	10	10.1	100.5
25 ngmL	2	<input checked="" type="checkbox"/>	25	23.3	93.1
50ngmL	3	<input checked="" type="checkbox"/>	50	54.6	109.1
100 ngmL	4	<input checked="" type="checkbox"/>	100	105.5	105.5
500ngmL	5	<input checked="" type="checkbox"/>	500	483.9	96.8
1000 ngmL	6	<input checked="" type="checkbox"/>	1000	914.0	91.4
3000 ngmL	7	<input checked="" type="checkbox"/>	3000	3112.3	103.7

ISP Forensics Calibration Curve Report

CS

Batch Data Path C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3134 Urine 032919 CS\QuantResults\am 13 worklist 3134.batch.bin
Last Calib Update 4/1/2019 7:50 AM **Analyst Name** ISP TOX

Target Compound Nitrazepam
Internal Standard Clonazepam-D4 ISTD

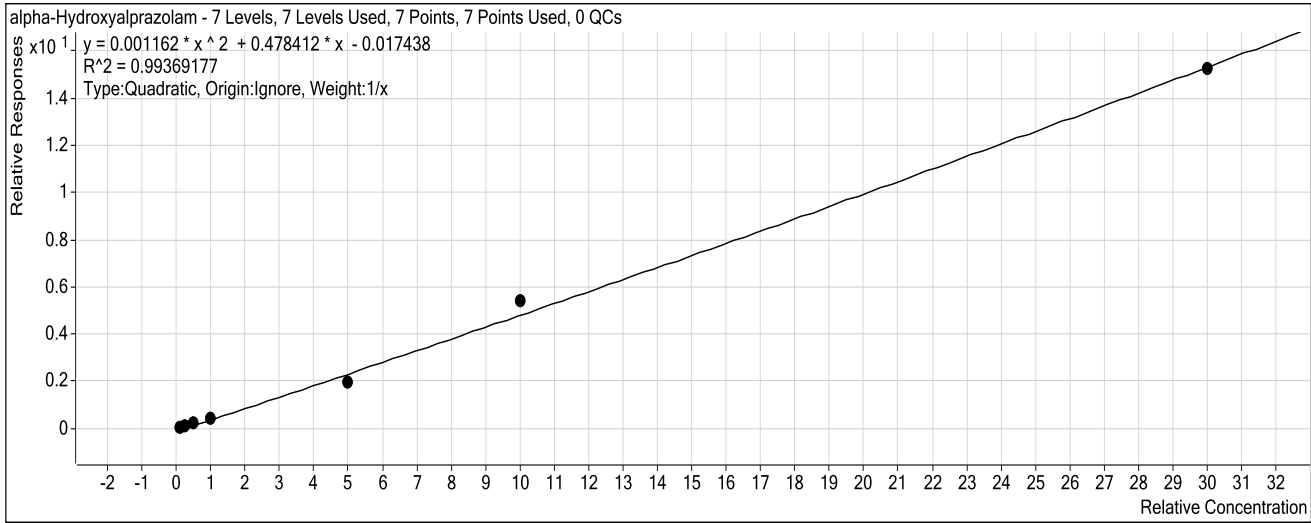


Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	1	<input checked="" type="checkbox"/>	10	10.2	102.5
25 ng/mL	2	<input checked="" type="checkbox"/>	25	23.1	92.2
50 ng/mL	3	<input checked="" type="checkbox"/>	50	50.9	101.8
100 ng/mL	4	<input checked="" type="checkbox"/>	100	102.3	102.3
500 ng/mL	5	<input checked="" type="checkbox"/>	500	503.4	100.7
1000 ng/mL	6	<input checked="" type="checkbox"/>	1000	1010.5	101.1
3000 ng/mL	7	<input checked="" type="checkbox"/>	3000	2982.8	99.4

ISP Forensics Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3134 Urine 032919 CS\QuantResults\am 13 worklist 3134.batch.bin
Last Calib Update 4/1/2019 7:50 AM **Analyst Name** ISP TOX

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



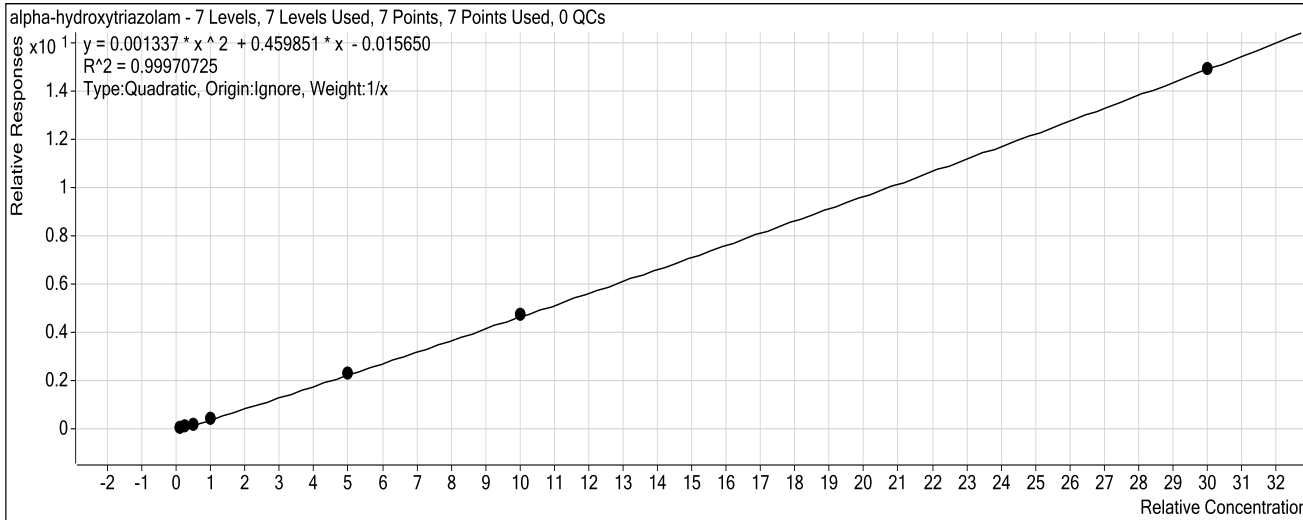
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	1	<input checked="" type="checkbox"/>	10	11.3	112.7
25 ng/mL	2	<input checked="" type="checkbox"/>	25	23.1	92.2
50 ng/mL	3	<input checked="" type="checkbox"/>	50	54.2	108.4
100 ng/mL	4	<input checked="" type="checkbox"/>	100	93.8	93.8
500 ng/mL	5	<input checked="" type="checkbox"/>	500	411.6	82.3
1000 ng/mL	6	<input checked="" type="checkbox"/>	1000	1111.0	111.1
3000 ng/mL	7	<input checked="" type="checkbox"/>	3000	2979.3	99.3

ISP Forensics Calibration Curve Report

CS

Batch Data Path C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3134 Urine 032919 CS\QuantResults\am 13 worklist 3134.batch.bin
Last Calib Update 4/1/2019 7:50 AM **Analyst Name** ISP TOX

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

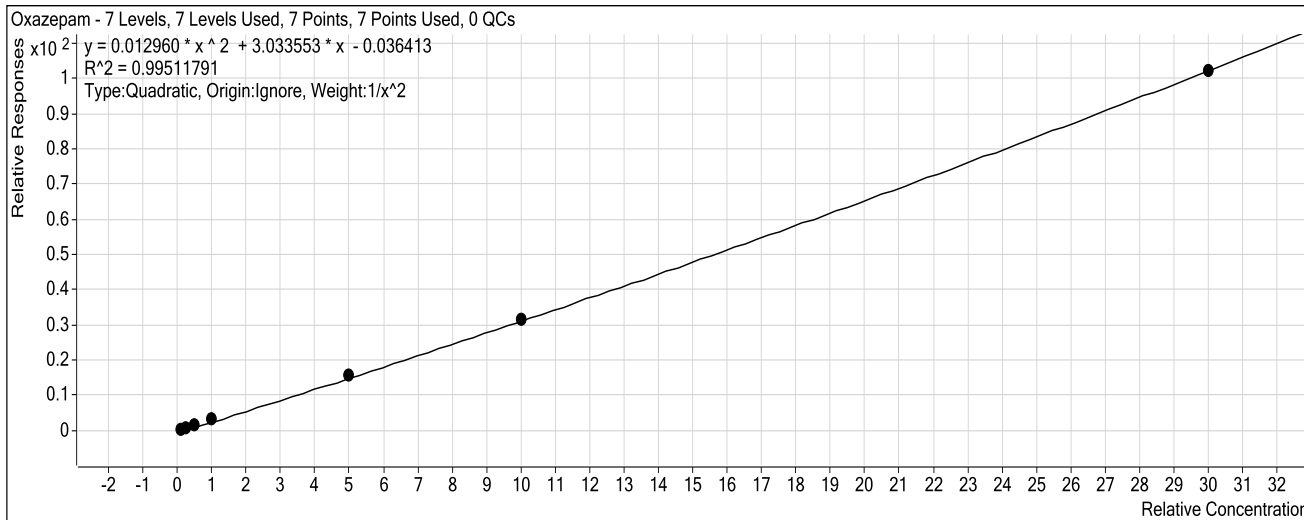


Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	1	<input checked="" type="checkbox"/>	10	12.2	122.2
25 ng/mL	2	<input checked="" type="checkbox"/>	25	21.8	87.3
50 ng/mL	3	<input checked="" type="checkbox"/>	50	47.3	94.6
100 ng/mL	4	<input checked="" type="checkbox"/>	100	94.7	94.7
500 ng/mL	5	<input checked="" type="checkbox"/>	500	501.7	100.3
1000 ng/mL	6	<input checked="" type="checkbox"/>	1000	1010.4	101.0
3000 ng/mL	7	<input checked="" type="checkbox"/>	3000	2996.8	99.9

ISP Forensics Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3134 Urine 032919 CS\QuantResults\am 13 worklist 3134.batch.bin
Last Calib Update 4/1/2019 7:50 AM **Analyst Name** ISP TOX

Target Compound Oxazepam
Internal Standard Nordiazepam-D5 ISTD

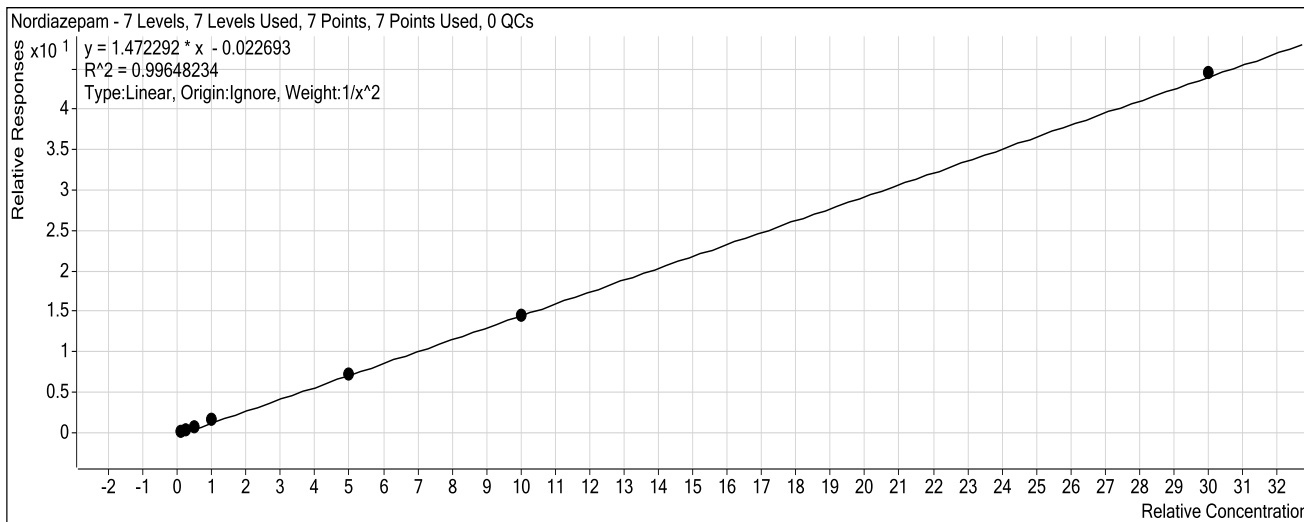


Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	1	<input checked="" type="checkbox"/>	10	10.4	104.3
25 ng/mL	2	<input checked="" type="checkbox"/>	25	21.9	87.4
50 ng/mL	3	<input checked="" type="checkbox"/>	50	49.8	99.7
100 ng/mL	4	<input checked="" type="checkbox"/>	100	107.9	107.9
500 ng/mL	5	<input checked="" type="checkbox"/>	500	504.8	101.0
1000 ng/mL	6	<input checked="" type="checkbox"/>	1000	1000.2	100.0
3000 ng/mL	7	<input checked="" type="checkbox"/>	3000	2991.8	99.7

ISP Forensics Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3134 Urine 032919 CS\QuantResults\am 13 worklist 3134.batch.bin
Last Calib Update 4/1/2019 7:50 AM **Analyst Name** ISP TOX

Target Compound Nordiazepam
Internal Standard Nordiazepam-D5 ISTD

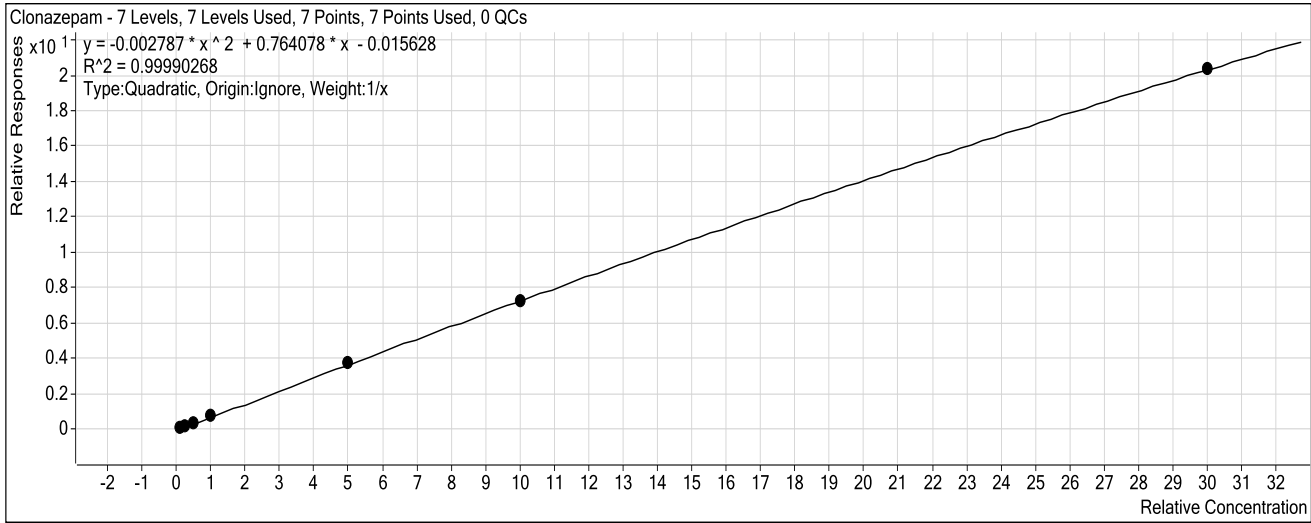


Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	1	<input checked="" type="checkbox"/>	10	10.3	103.0
25 ng/mL	2	<input checked="" type="checkbox"/>	25	22.6	90.5
50 ng/mL	3	<input checked="" type="checkbox"/>	50	50.2	100.4
100 ng/mL	4	<input checked="" type="checkbox"/>	100	107.5	107.5
500 ng/mL	5	<input checked="" type="checkbox"/>	500	493.5	98.7
1000 ng/mL	6	<input checked="" type="checkbox"/>	1000	989.2	98.9
3000 ng/mL	7	<input checked="" type="checkbox"/>	3000	3030.5	101.0

ISP Forensics Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3134 Urine 032919 CS\QuantResults\am 13 worklist 3134.batch.bin
Last Calib Update 4/1/2019 7:50 AM **Analyst Name** ISP TOX

Target Compound Clonazepam
Internal Standard Clonazepam-D4 ISTD



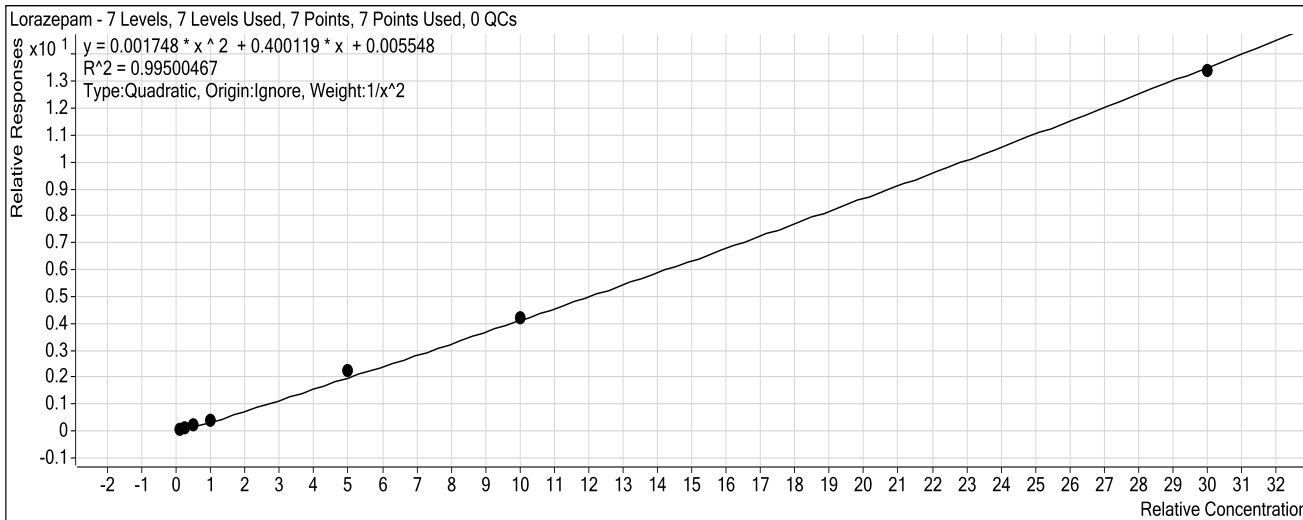
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	1	<input checked="" type="checkbox"/>	10	10.7	106.7
25 ng/mL	2	<input checked="" type="checkbox"/>	25	23.0	92.1
50 ng/mL	3	<input checked="" type="checkbox"/>	50	50.1	100.2
100 ng/mL	4	<input checked="" type="checkbox"/>	100	100.2	100.2
500 ng/mL	5	<input checked="" type="checkbox"/>	500	507.5	101.5
1000 ng/mL	6	<input checked="" type="checkbox"/>	1000	991.8	99.2
3000 ng/mL	7	<input checked="" type="checkbox"/>	3000	3001.7	100.1

ISP Forensics Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3134 Urine 032919 CS\QuantResults\am 13 worklist 3134.batch.bin

Last Calib Update 4/1/2019 7:50 AM **Analyst Name** ISP TOX

Target Compound Lorazepam
Internal Standard Nordiazepam-D5 ISTD

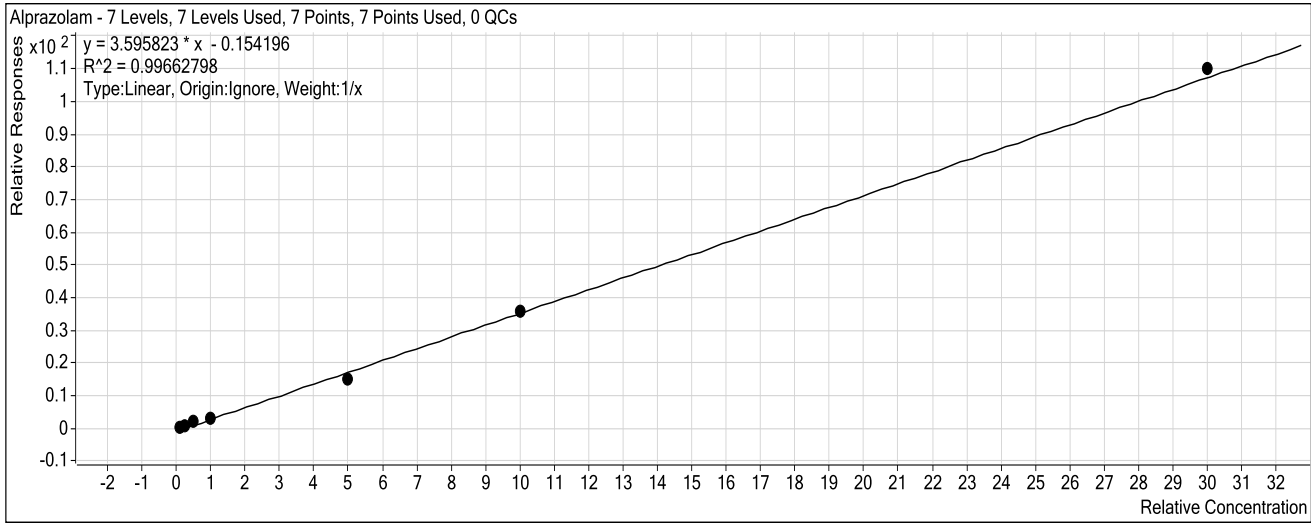


Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	1	<input checked="" type="checkbox"/>	10	10.4	104.1
25 ng/mL	2	<input checked="" type="checkbox"/>	25	22.2	88.7
50 ng/mL	3	<input checked="" type="checkbox"/>	50	51.5	103.0
100 ng/mL	4	<input checked="" type="checkbox"/>	100	96.5	96.5
500 ng/mL	5	<input checked="" type="checkbox"/>	500	542.3	108.5
1000 ng/mL	6	<input checked="" type="checkbox"/>	1000	1002.7	100.3
3000 ng/mL	7	<input checked="" type="checkbox"/>	3000	2966.1	98.9

ISP Forensics Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3134 Urine 032919 CS\QuantResults\am 13 worklist 3134.batch.bin
Last Calib Update 4/1/2019 7:50 AM **Analyst Name** ISP TOX

Target Compound Alprazolam
Internal Standard alphahydroxyalprazolam-D5 ISTD

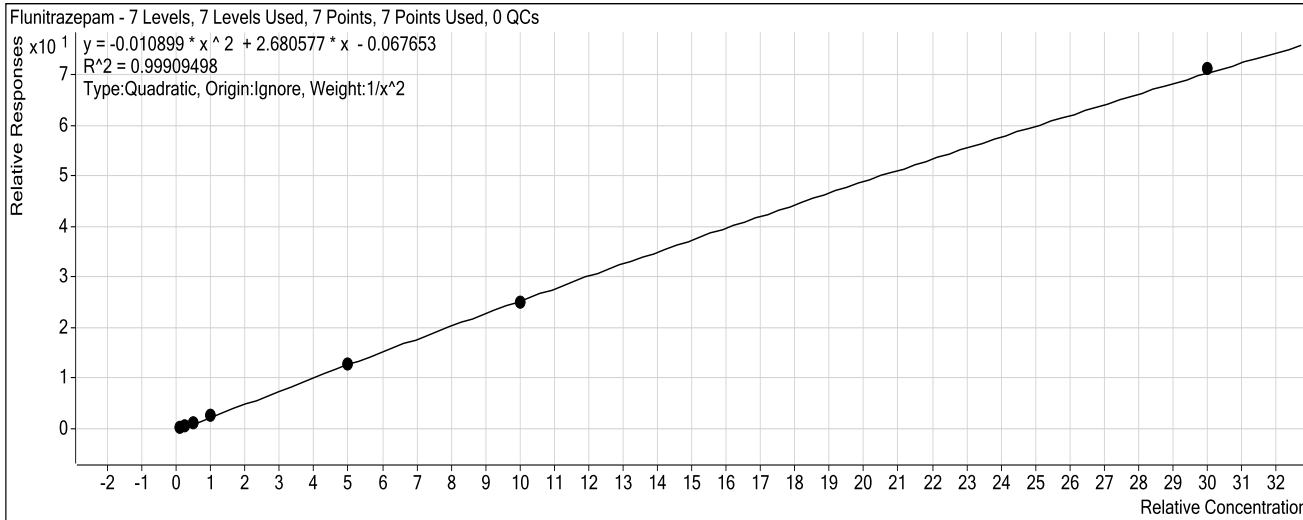


Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	1	<input checked="" type="checkbox"/>	10	10.7	106.9
25 ng/mL	2	<input checked="" type="checkbox"/>	25	24.2	96.9
50 ng/mL	3	<input checked="" type="checkbox"/>	50	58.5	117.1
100 ng/mL	4	<input checked="" type="checkbox"/>	100	90.9	90.9
500 ng/mL	5	<input checked="" type="checkbox"/>	500	426.0	85.2
1000 ng/mL	6	<input checked="" type="checkbox"/>	1000	1006.8	100.7
3000 ng/mL	7	<input checked="" type="checkbox"/>	3000	3067.8	102.3

ISP Forensics Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3134 Urine 032919 CS\QuantResults\am 13 worklist 3134.batch.bin
Last Calib Update 4/1/2019 7:50 AM **Analyst Name** ISP TOX

Target Compound Flunitrazepam
Internal Standard Clonazepam-D4 ISTD

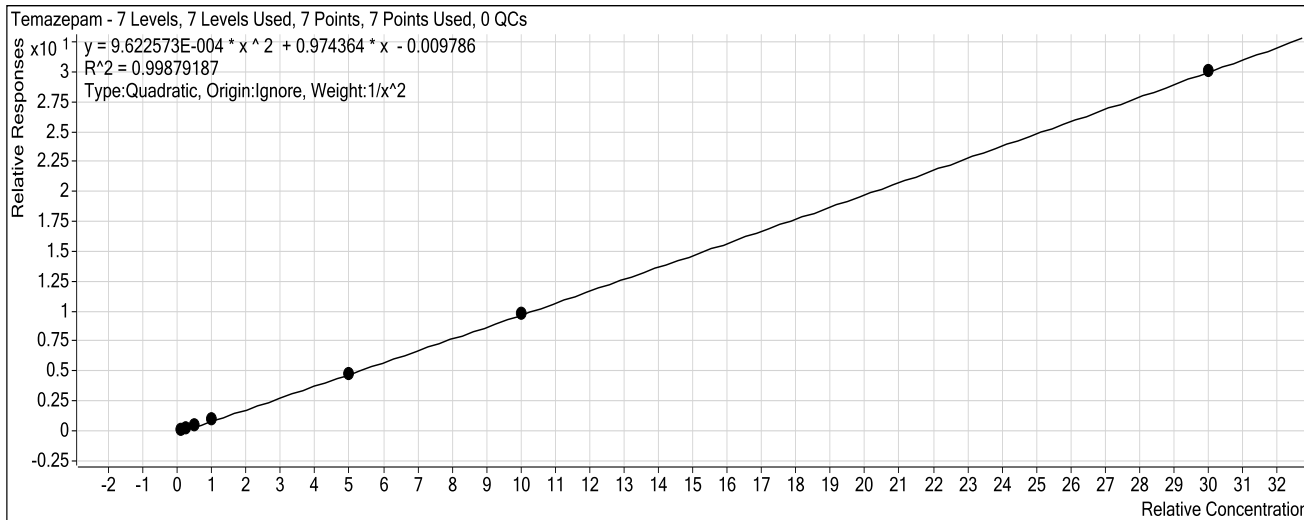


Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	1	<input checked="" type="checkbox"/>	10	10.1	100.7
25 ng/mL	2	<input checked="" type="checkbox"/>	25	24.1	96.5
50 ng/mL	3	<input checked="" type="checkbox"/>	50	50.9	101.9
100 ng/mL	4	<input checked="" type="checkbox"/>	100	103.7	103.7
500 ng/mL	5	<input checked="" type="checkbox"/>	500	494.3	98.9
1000 ng/mL	6	<input checked="" type="checkbox"/>	1000	972.8	97.3
3000 ng/mL	7	<input checked="" type="checkbox"/>	3000	3035.5	101.2

ISP Forensics Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3134 Urine 032919 CS\QuantResults\am 13 worklist 3134.batch.bin
Last Calib Update 4/1/2019 7:50 AM **Analyst Name** ISP TOX

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



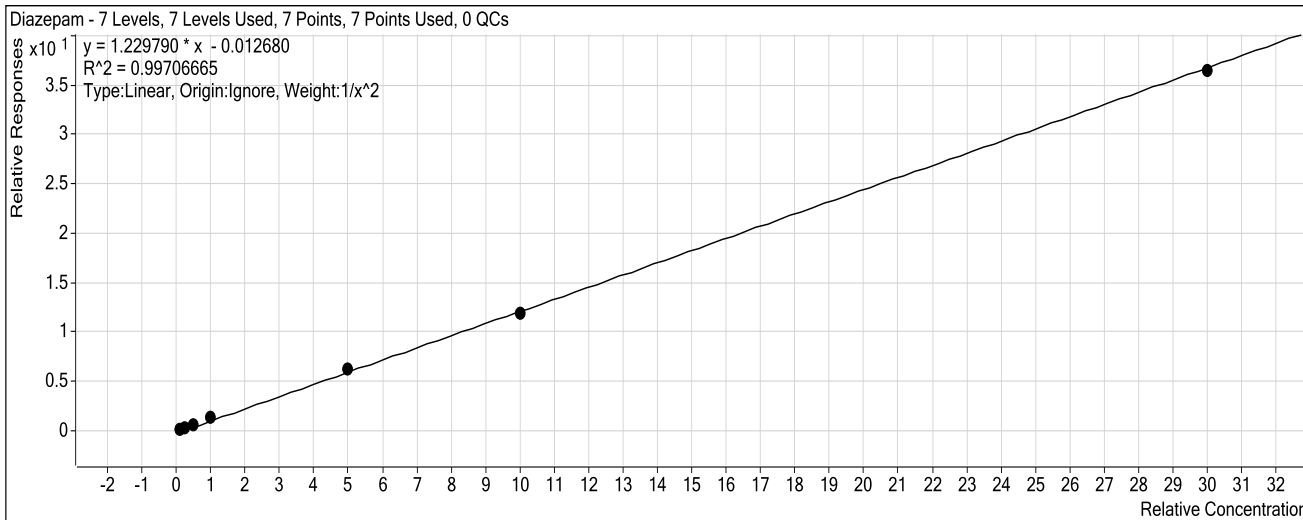
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	1	<input checked="" type="checkbox"/>	10	10.2	101.7
25 ng/mL	2	<input checked="" type="checkbox"/>	25	23.6	94.3
50 ng/mL	3	<input checked="" type="checkbox"/>	50	50.4	100.8
100 ng/mL	4	<input checked="" type="checkbox"/>	100	104.3	104.3
500 ng/mL	5	<input checked="" type="checkbox"/>	500	494.8	99.0
1000 ng/mL	6	<input checked="" type="checkbox"/>	1000	996.6	99.7
3000 ng/mL	7	<input checked="" type="checkbox"/>	3000	3004.9	100.2

ISP Forensics Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3134 Urine 032919 CS\QuantResults\am 13 worklist 3134.batch.bin

Last Calib Update 4/1/2019 7:50 AM **Analyst Name** ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	1	<input checked="" type="checkbox"/>	10	10.2	101.7
25 ng/mL	2	<input checked="" type="checkbox"/>	25	23.1	92.3
50 ng/mL	3	<input checked="" type="checkbox"/>	50	52.0	104.0
100 ng/mL	4	<input checked="" type="checkbox"/>	100	106.2	106.2
500 ng/mL	5	<input checked="" type="checkbox"/>	500	503.2	100.6
1000 ng/mL	6	<input checked="" type="checkbox"/>	1000	962.6	96.3
3000 ng/mL	7	<input checked="" type="checkbox"/>	3000	2967.8	98.9

ISP FORENSICS

Pocatello

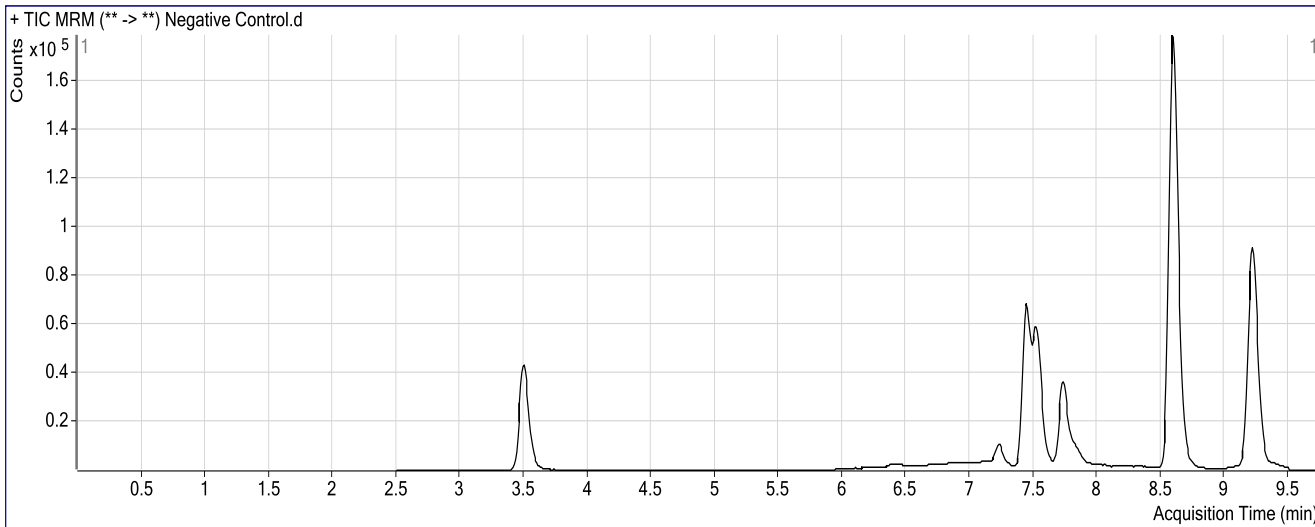
Benzodiazepine Analysis Report

Batch Data Path C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3134 Urine 032919 CS\QuantResults\am 13 wor
Analysis Time 4/1/2019 7:50 AM **Analyst Name** datastor
Report Time 4/1/2019 7:55 AM **Reporter Name** datastor
Last Calib Update 4/1/2019 7:50 AM **Batch State** Processed

Analysis Info

Acq Time 2019-03-29 17:06 **Data File** Negative Control.d
Sample Type Sample **Sample Name** Negative Control
Dilution 1 **Acq Method** Benzos_Z_Drugs_ACN_FA_ISP_2019.m
Position P1-B1 **Sample Info** Negative Urine lot POC031319; Worklist 3134
Inj Vol -1 **Comment** AM 13 Benzo and Z by LCQQQ

Sample Chromatogram



ISP FORENSICS

Pocatello

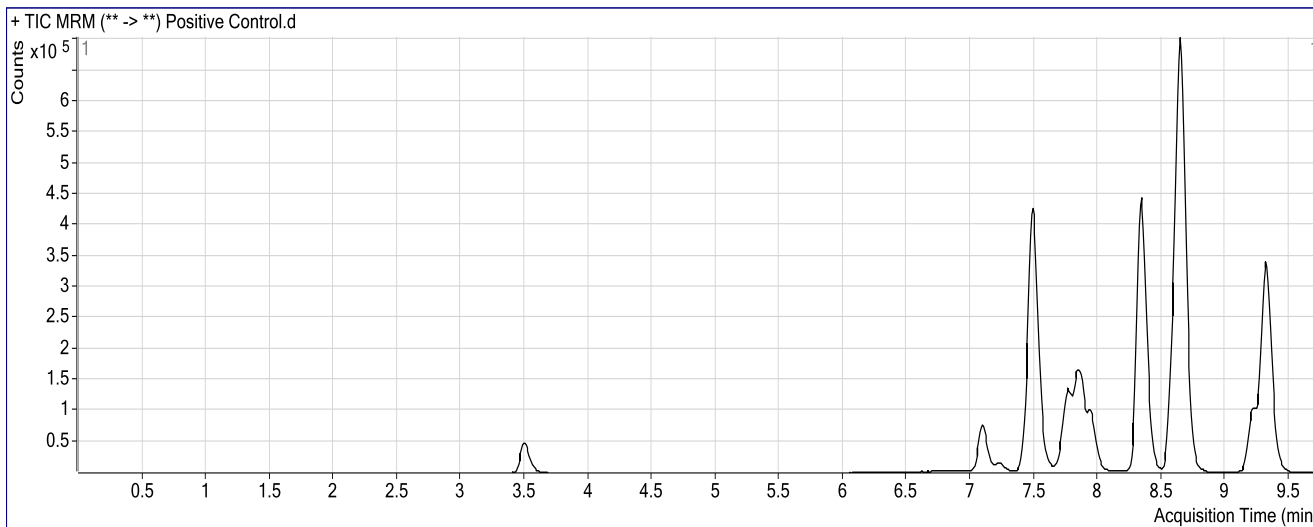
Benzodiazepine Analysis Report

Batch Data Path	C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3134 Urine 032919 CS\QuantResults\am 13 worklist 3134.ba		
Analysis Time	4/1/2019 7:50 AM	Analyst Name	datastor
Report Time	4/1/2019 7:54 AM	Reporter Name	datastor
Last Calib Update	4/1/2019 7:50 AM	Batch State	Processed

Analysis Info

Acq Time	2019-03-29 16:51	Data File	Positive Control.d
Sample Type	Sample	Sample Name	Positive Control
Dilution	1	Acq Method	Benzos_Z_Drugs_ACN_FA_ISP_2019.m
Position	P1-B2	Sample Info	300 ng/mL Benzodiazepines Mix Cerilliant lot FE04221402 in neg LOT PO
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	7.093	236323	166524	1.4192	301.0691
Oxazepam	Nordiazepam-D5 ISTD	7.489	1177199	123714	9.5155	310.7487
Clonazepam	Clonazepam-D4 ISTD	7.764	364332	166524	2.1879	291.4858
Lorazepam	Nordiazepam-D5 ISTD	7.839	153015	123714	1.2368	303.7021
Alprazolam	alphanhydroxyalprazolam-D5 ISTD	7.942	432267	37234	11.6095	327.1481
Flunitrazepam	Clonazepam-D4 ISTD	8.336	1624293	166524	9.7541	372.0329
Temazepam	Temazepam-D5 ISTD	8.647	2556616	859421	2.9748	305.3914
Diazepam	Diazepam-D5 ISTD	9.318	1297252	323894	4.0052	326.7108

ISP FORENSICS

Pocatello

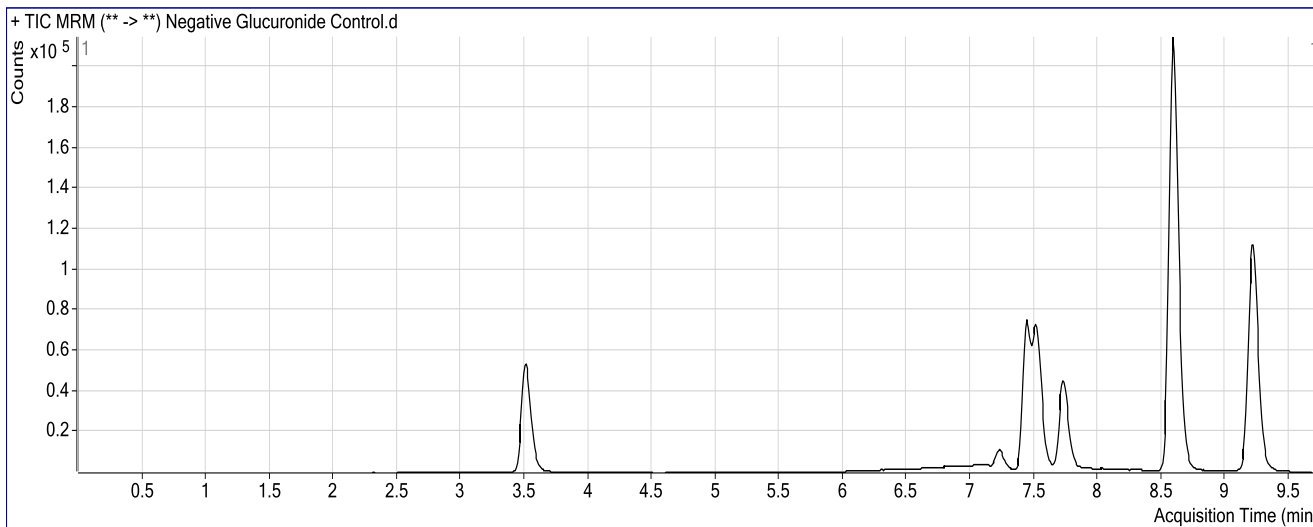
Benzodiazepine Analysis Report

Batch Data Path C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3134 Urine 032919 CS\QuantResults\am 13 worklist 3134.ba
Analysis Time 4/1/2019 7:50 AM **Analyst Name** datastor
Report Time 4/1/2019 7:54 AM **Reporter Name** datastor
Last Calib Update 4/1/2019 7:50 AM **Batch State** Processed

Analysis Info

Acq Time 2019-03-29 16:35 **Data File** Negative Glucuronide Control.d
Sample Type Sample **Sample Name** Negative Glucuronide Control
Dilution 1 **Acq Method** Benzos_Z_Drugs_ACN_FA_ISP_2019.m
Position P1-A9 **Sample Info** 300 ng/mL Alltech lot 715-5035 in neg lot POC031319; Worklist 3134
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	Nordiazepam-D5 ISTD	7.472	5784	135055	0.0428	2.6119

CS

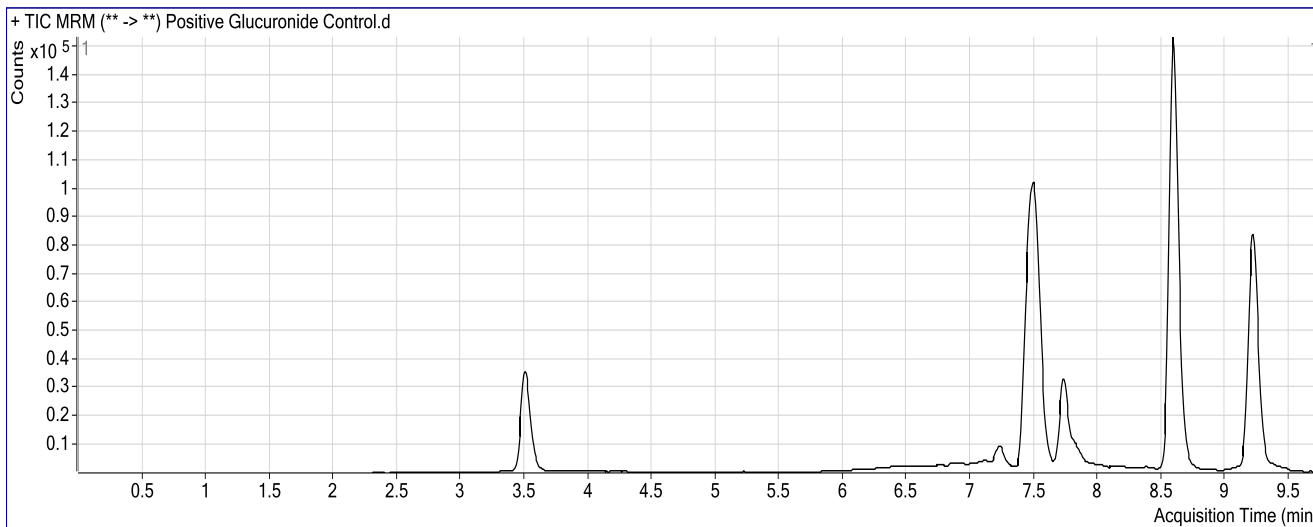
ISP FORENSICS Pocatello Benzodiazepine Analysis Report

Batch Data Path C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3134 Urine 032919 CS\QuantResults\am 13 worklist 3134.ba
Analysis Time 4/1/2019 7:50 AM **Analyst Name** datastor
Report Time 4/1/2019 7:54 AM **Reporter Name** datastor
Last Calib Update 4/1/2019 7:50 AM **Batch State** Processed

Analysis Info

Acq Time 2019-03-29 16:19 **Data File** Positive Glucuronide Control.d
Sample Type Sample **Sample Name** Positive Glucuronide Control
Dilution 1 **Acq Method** Benzos_Z_Drugs_ACN_FA_ISP_2019.m
Position P1-B3 **Sample Info** 300 ng/mL Alltech lot 715-5035 in neg lot POC031319; Worklist 3134
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	Nordiazepam-D5 ISTD	7.489	186588	94972	1.9647	65.7798

ISP FORENSICS

Pocatello

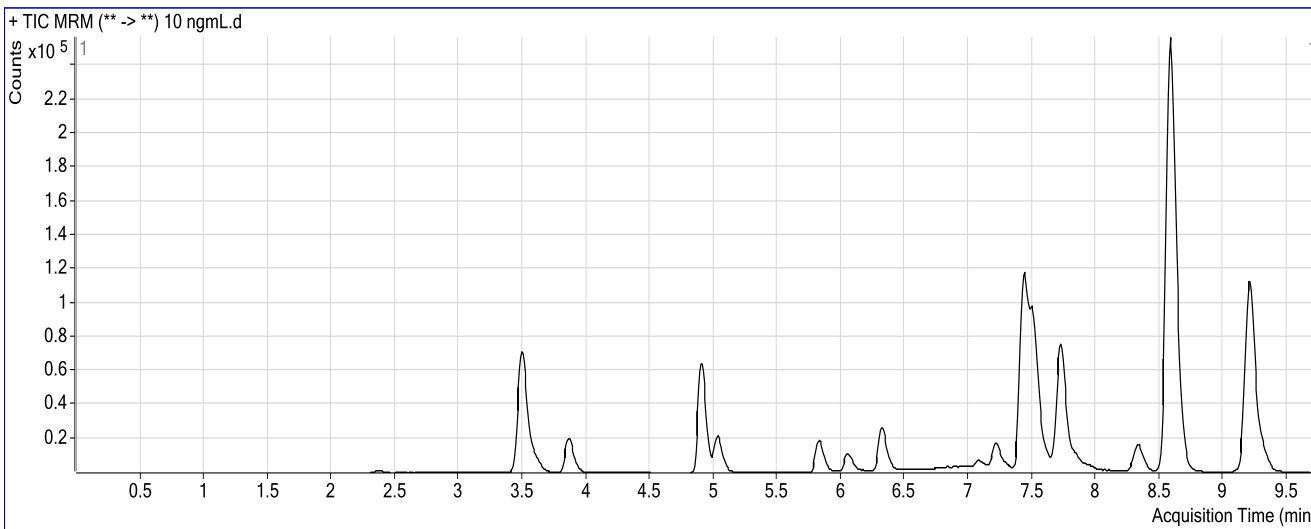
Benzodiazepine Analysis Report

Batch Data Path	C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3134 Urine 032919 CS\QuantResults\am 13 worklist 3134.ba		
Analysis Time	4/1/2019 7:50 AM	Analyst Name	datastor
Report Time	4/1/2019 7:53 AM	Reporter Name	datastor
Last Calib Update	4/1/2019 7:50 AM	Batch State	Processed

Analysis Info

Acq Time	2019-03-29 14:15	Data File	10 ngmL.d
Sample Type	Calibration	Sample Name	10 ngmL
Dilution	1	Acq Method	Benzos_Z_Drugs_ACN_FA_ISP_2019.m
Position	P1-A2	Sample Info	Worklist 3134
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	2.367	6473	317535	0.0204	9.8909
7-Aminoflunitrazepam	7-Aminoflunitrazepam-D7 ISTD	3.606	26452	317535	0.0833	8.8518
zopiclone	Nordiazepam-D5 ISTD	3.859	50826	158388	0.3209	10.3437
zolpidem	Nordiazepam-D5 ISTD	4.900	222148	158388	1.4026	10.2858
Chlordiazepoxide	Nordiazepam-D5 ISTD	5.036	69138	158388	0.4365	10.3183
quetiapine	Temazepam-D5 ISTD	5.826	55472	1054217	0.0526	7.8885
Midazolam	Clonazepam-D4 ISTD	6.055	38252	281803	0.1357	9.1474
Flurazepam	Diazepam-D5 ISTD	6.319	99183	360519	0.2751	10.0535
Nitrazepam	Clonazepam-D4 ISTD	7.085	10155	281803	0.0360	10.2499
alpha-Hydroxyalprazolam	alphahydroxyalprazolam-D5 ISTD	7.256	2085	57110	0.0365	11.2713
alpha-hydroxytriazolam	Nordiazepam-D5 ISTD	7.306	6425	158388	0.0406	12.2197
Oxazepam	Nordiazepam-D5 ISTD	7.472	44363	158388	0.2801	10.4288
Nordiazepam	Nordiazepam-D5 ISTD	7.600	20427	158388	0.1290	10.3010
Clonazepam	Clonazepam-D4 ISTD	7.773	18555	281803	0.0658	10.6667
Lorazepam	Nordiazepam-D5 ISTD	7.839	7480	158388	0.0472	10.4109
Alprazolam	alphahydroxyalprazolam-D5 ISTD	7.925	13153	57110	0.2303	10.6932
Flunitrazepam	Clonazepam-D4 ISTD	8.327	56976	281803	0.2022	10.0705
Temazepam	Temazepam-D5 ISTD	8.639	94143	1054217	0.0893	10.1684
Diazepam	Diazepam-D5 ISTD	9.310	40519	360519	0.1124	10.1701

ISP FORENSICS

Pocatello

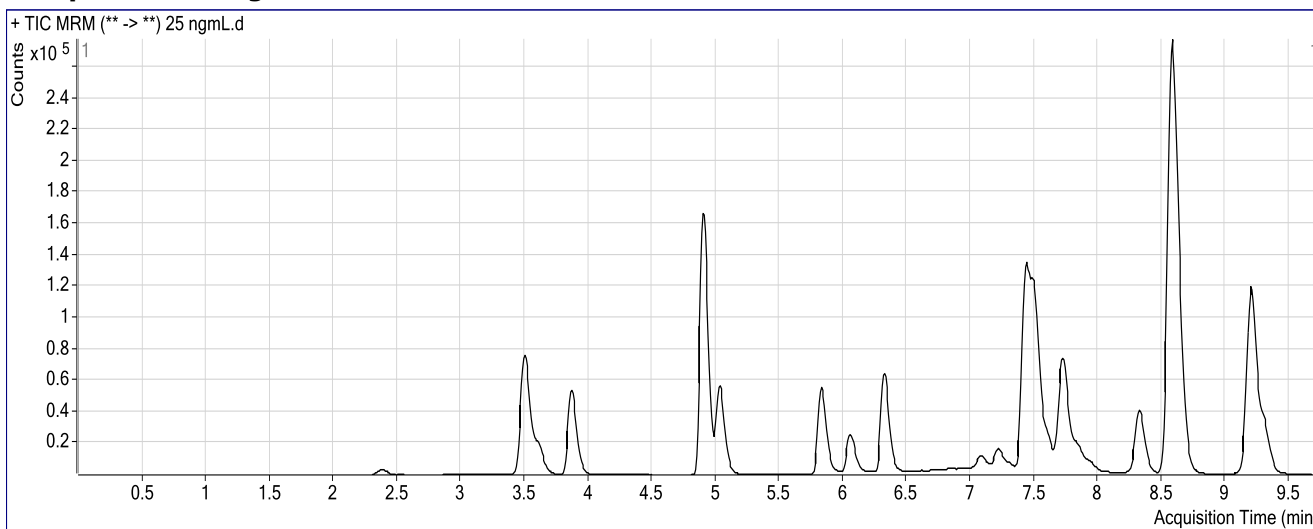
Benzodiazepine Analysis Report

Batch Data Path	C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3134 Urine 032919 CS\QuantResults\am 13 worklist 3134.ba		
Analysis Time	4/1/2019 7:50 AM	Analyst Name	datastor
Report Time	4/1/2019 7:53 AM	Reporter Name	datastor
Last Calib Update	4/1/2019 7:50 AM	Batch State	Processed

Analysis Info

Acq Time	2019-03-29 14:30	Data File	25 ngmL.d
Sample Type	Calibration	Sample Name	25 ngmL
Dilution	1	Acq Method	Benzos_Z_Drugs_ACN_FA_ISP_2019.m
Position	P1-A3	Sample Info	Worklist 3134
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	2.384	16053	344627	0.0466	23.4897
7-Aminoflunitrazepam	7-Aminoflunitrazepam-D7 ISTD	3.615	62548	344627	0.1815	22.7975
zopiclone	Nordiazepam-D5 ISTD	3.867	138700	179029	0.7747	22.5392
zolpidem	Nordiazepam-D5 ISTD	4.900	579393	179029	3.2363	22.2647
Chlordiazepoxide	Nordiazepam-D5 ISTD	5.036	178514	179029	0.9971	22.2632
quetiapine	Temazepam-D5 ISTD	5.826	162119	1109141	0.1462	22.7986
Midazolam	Clonazepam-D4 ISTD	6.055	91738	259440	0.3536	22.7621
Flurazepam	Diazepam-D5 ISTD	6.319	249554	382258	0.6528	23.2662
Nitrazepam	Clonazepam-D4 ISTD	7.085	25251	259440	0.0973	23.0588
alpha-Hydroxyalprazolam	alphanhydroxyalprazolam-D5 ISTD	7.256	4499	48403	0.0930	23.0621
alpha-hydroxytriazolam	Nordiazepam-D5 ISTD	7.306	15173	179029	0.0848	21.8200
Oxazepam	Nordiazepam-D5 ISTD	7.480	112298	179029	0.6273	21.8573
Nordiazepam	Nordiazepam-D5 ISTD	7.609	55575	179029	0.3104	22.6256
Clonazepam	Clonazepam-D4 ISTD	7.764	41568	259440	0.1602	23.0343
Lorazepam	Nordiazepam-D5 ISTD	7.839	16886	179029	0.0943	22.1643
Alprazolam	alphanhydroxyalprazolam-D5 ISTD	7.934	34709	48403	0.7171	24.2299
Flunitrazepam	Clonazepam-D4 ISTD	8.320	150055	259440	0.5784	24.1242
Temazepam	Temazepam-D5 ISTD	8.639	244089	1109141	0.2201	23.5849
Diazepam	Diazepam-D5 ISTD	9.310	103576	382258	0.2710	23.0639

ISP FORENSICS

Pocatello

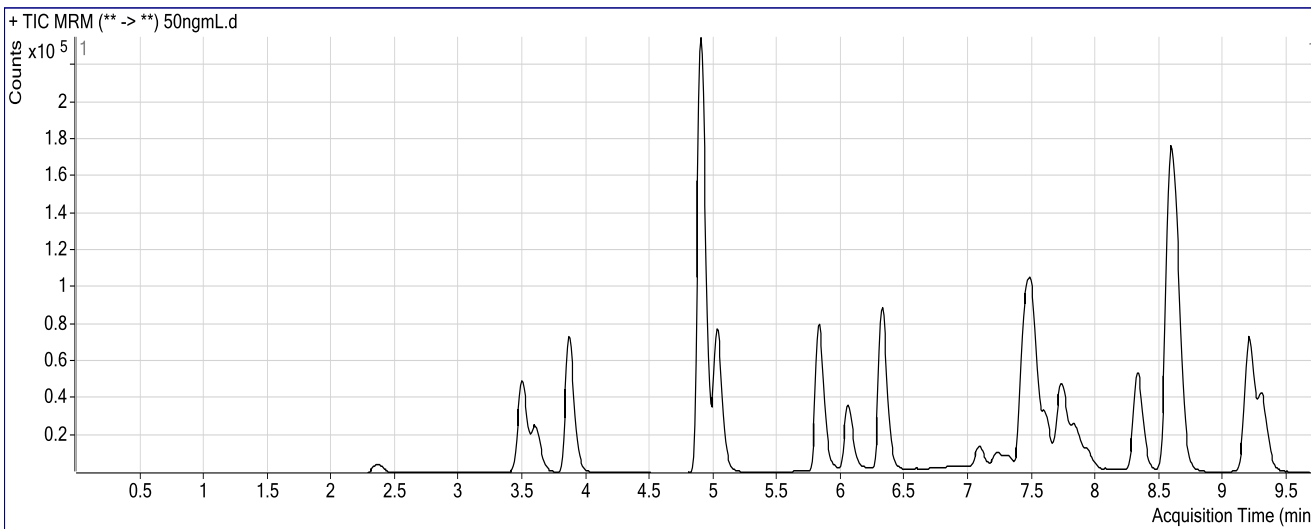
Benzodiazepine Analysis Report

Batch Data Path	C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3134 Urine 032919 CS\QuantResults\am 13 worklist 3134.ba		
Analysis Time	4/1/2019 7:50 AM	Analyst Name	datastor
Report Time	4/1/2019 7:54 AM	Reporter Name	datastor
Last Calib Update	4/1/2019 7:50 AM	Batch State	Processed

Analysis Info

Acq Time	2019-03-29 14:46	Data File	50ngmL.d
Sample Type	Calibration	Sample Name	50ngmL
Dilution	1	Acq Method	Benzos_Z_Drugs_ACN_FA_ISP_2019.m
Position	P1-A4	Sample Info	Worklist 3134
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	2.367	22689	218606	0.1038	53.2276
7-Aminoflunitrazepam	7-Aminoflunitrazepam-D7 ISTD	3.606	94254	218606	0.4312	58.3332
zopiclone	Nordiazepam-D5 ISTD	3.859	186449	104086	1.7913	49.8558
zolpidem	Nordiazepam-D5 ISTD	4.900	815756	104086	7.8373	52.3277
Chlordiazepoxide	Nordiazepam-D5 ISTD	5.036	245986	104086	2.3633	51.3579
quetiapine	Temazepam-D5 ISTD	5.826	236189	660534	0.3576	56.5432
Midazolam	Clonazepam-D4 ISTD	6.055	131526	151128	0.8703	55.1415
Flurazepam	Diazepam-D5 ISTD	6.319	355547	229972	1.5460	54.5611
Nitrazepam	Clonazepam-D4 ISTD	7.085	34810	151128	0.2303	50.8784
alpha-Hydroxyalprazolam	alphanhydroxyalprazolam-D5 ISTD	7.265	5866	24221	0.2422	54.1952
alpha-hydroxytriazolam	Nordiazepam-D5 ISTD	7.314	21040	104086	0.2021	47.2953
Oxazepam	Nordiazepam-D5 ISTD	7.480	153878	104086	1.4784	49.8282
Nordiazepam	Nordiazepam-D5 ISTD	7.609	74540	104086	0.7161	50.1820
Clonazepam	Clonazepam-D4 ISTD	7.756	55403	151128	0.3666	50.1155
Lorazepam	Nordiazepam-D5 ISTD	7.839	22080	104086	0.2121	51.5156
Alprazolam	alphanhydroxyalprazolam-D5 ISTD	7.925	47254	24221	1.9510	58.5453
Flunitrazepam	Clonazepam-D4 ISTD	8.327	195714	151128	1.2950	50.9405
Temazepam	Temazepam-D5 ISTD	8.639	318223	660534	0.4818	50.4234
Diazepam	Diazepam-D5 ISTD	9.302	144192	229972	0.6270	52.0152

ISP FORENSICS

Pocatello

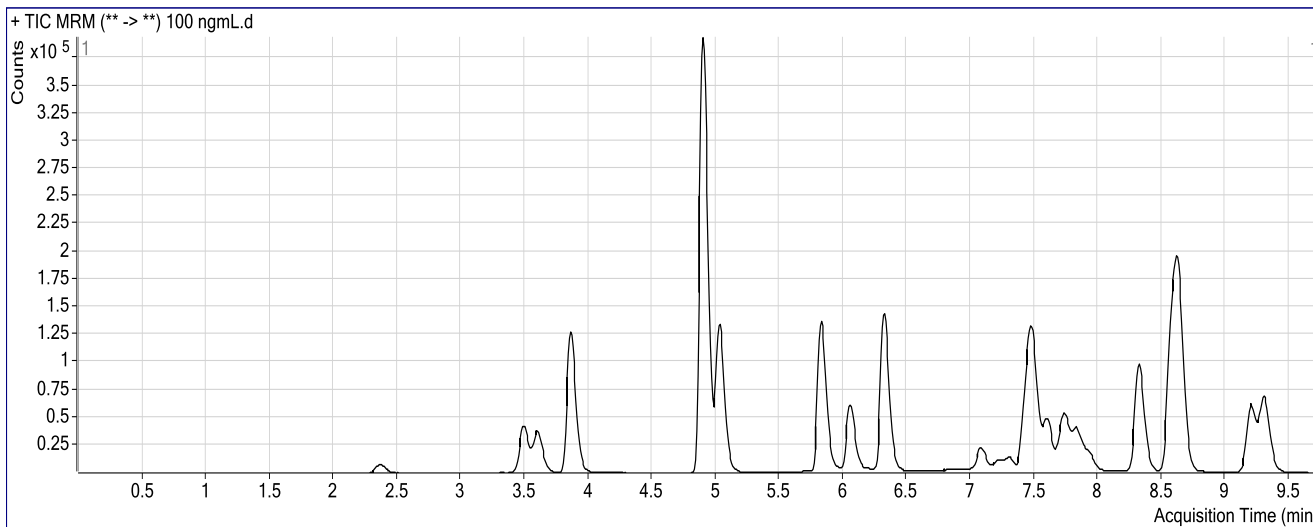
Benzodiazepine Analysis Report

Batch Data Path	C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3134 Urine 032919 CS\QuantResults\am 13 worklist 3134.ba		
Analysis Time	4/1/2019 7:50 AM	Analyst Name	datastor
Report Time	4/1/2019 7:54 AM	Reporter Name	datastor
Last Calib Update	4/1/2019 7:50 AM	Batch State	Processed

Analysis Info

Acq Time	2019-03-29 15:01	Data File	100 ngmL.d
Sample Type	Calibration	Sample Name	100 ngmL
Dilution	1	Acq Method	Benzos_Z_Drugs_ACN_FA_ISP_2019.m
Position	P1-A5	Sample Info	Worklist 3134
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	2.367	36126	187386	0.1928	99.5944
7-Aminoflunitrazepam	7-Aminoflunitrazepam-D7 ISTD	3.606	139822	187386	0.7462	103.3275
zopiclone	Nordiazepam-D5 ISTD	3.859	332362	85686	3.8788	105.9518
zolpidem	Nordiazepam-D5 ISTD	4.900	1378983	85686	16.0934	106.2982
Chlordiazepoxide	Nordiazepam-D5 ISTD	5.036	425574	85686	4.9666	106.7459
quetiapine	Temazepam-D5 ISTD	5.826	418978	558611	0.7500	119.3716
Midazolam	Clonazepam-D4 ISTD	6.055	222393	131833	1.6869	106.5770
Flurazepam	Diazepam-D5 ISTD	6.319	584697	195112	2.9967	105.5420
Nitrazepam	Clonazepam-D4 ISTD	7.085	62744	131833	0.4759	102.3390
alpha-Hydroxyalprazolam	alphanhydroxyalprazolam-D5 ISTD	7.248	11678	26996	0.4326	93.8477
alpha-hydroxytriazolam	Nordiazepam-D5 ISTD	7.298	36057	85686	0.4208	94.6519
Oxazepam	Nordiazepam-D5 ISTD	7.472	278632	85686	3.2518	107.8963
Nordiazepam	Nordiazepam-D5 ISTD	7.609	133666	85686	1.5599	107.4949
Clonazepam	Clonazepam-D4 ISTD	7.756	98536	131833	0.7474	100.2330
Lorazepam	Nordiazepam-D5 ISTD	7.831	33709	85686	0.3934	96.5276
Alprazolam	alphanhydroxyalprazolam-D5 ISTD	7.925	84099	26996	3.1152	90.9224
Flunitrazepam	Clonazepam-D4 ISTD	8.320	355868	131833	2.6994	103.6621
Temazepam	Temazepam-D5 ISTD	8.631	563021	558611	1.0079	104.3382
Diazepam	Diazepam-D5 ISTD	9.310	252317	195112	1.2932	106.1861

ISP FORENSICS

Pocatello

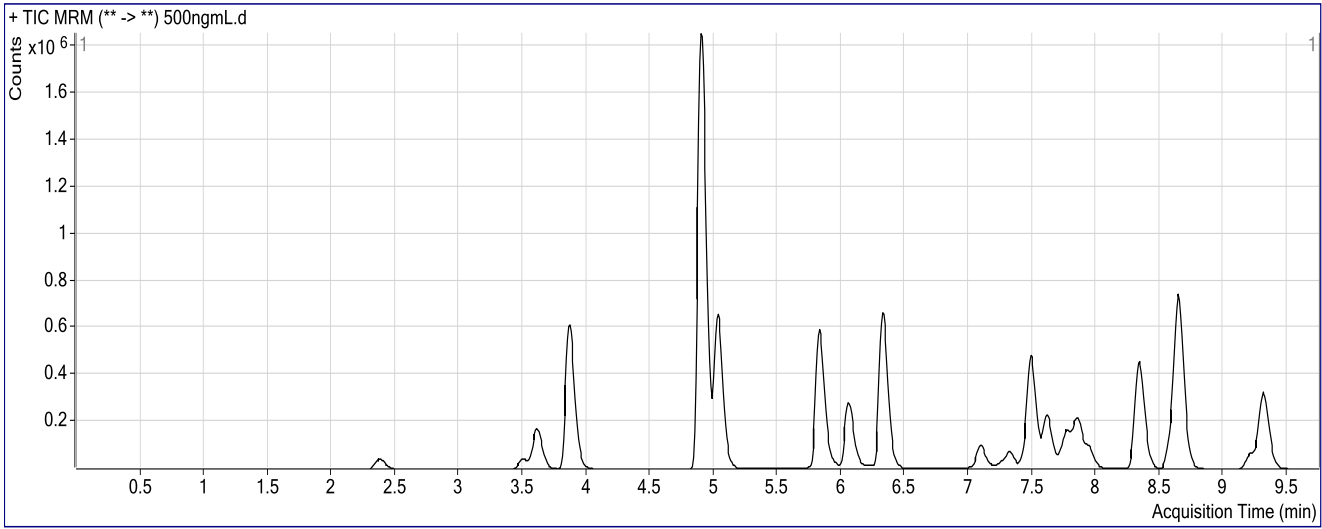
Benzodiazepine Analysis Report

Batch Data Path	C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3134 Urine 032919 CS\QuantResults\am 13 worklist 3134.ba		
Analysis Time	4/1/2019 7:50 AM	Analyst Name	datastor
Report Time	4/1/2019 7:54 AM	Reporter Name	datastor
Last Calib Update	4/1/2019 7:50 AM	Batch State	Processed

Analysis Info

Acq Time	2019-03-29 15:17	Data File	500ngmL.d
Sample Type	Calibration	Sample Name	500ngmL
Dilution	1	Acq Method	Benzos_Z_Drugs_ACN_FA_ISP_2019.m
Position	P1-A6	Sample Info	Worklist 3134
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	2.384	197585	201638	0.9799	515.4342
7-Aminoflunitrazepam	7-Aminoflunitrazepam-D7 ISTD	3.615	724444	201638	3.5928	518.2657
zopiclone	Nordiazepam-D5 ISTD	3.867	1620914	88991	18.2144	491.1747
zolpidem	Nordiazepam-D5 ISTD	4.900	6729117	88991	75.6159	496.3588
Chlordiazepoxide	Nordiazepam-D5 ISTD	5.036	2091628	88991	23.5039	499.0830
quetiapine	Temazepam-D5 ISTD	5.826	1810199	579166	3.1255	504.9135
Midazolam	Clonazepam-D4 ISTD	6.055	1074180	132317	8.1182	523.4873
Flurazepam	Diazepam-D5 ISTD	6.319	2802753	206204	13.5921	483.8932
Nitrazepam	Clonazepam-D4 ISTD	7.093	313719	132317	2.3710	503.4153
alpha-Hydroxyalprazolam	alphahydroxyalprazolam-D5 ISTD	7.265	68751	34872	1.9716	411.6343
alpha-hydroxytriazolam	Nordiazepam-D5 ISTD	7.323	206912	88991	2.3251	501.7039
Oxazepam	Nordiazepam-D5 ISTD	7.489	1389011	88991	15.6085	504.8398
Nordiazepam	Nordiazepam-D5 ISTD	7.617	644500	88991	7.2423	493.4500
Clonazepam	Clonazepam-D4 ISTD	7.773	501484	132317	3.7900	507.4660
Lorazepam	Nordiazepam-D5 ISTD	7.847	198157	88991	2.2267	542.2803
Alprazolam	alphahydroxyalprazolam-D5 ISTD	7.942	528767	34872	15.1632	425.9786
Flunitrazepam	Clonazepam-D4 ISTD	8.336	1708872	132317	12.9150	494.2557
Temazepam	Temazepam-D5 ISTD	8.647	2800441	579166	4.8353	494.8379
Diazepam	Diazepam-D5 ISTD	9.310	1273429	206204	6.1756	503.1970

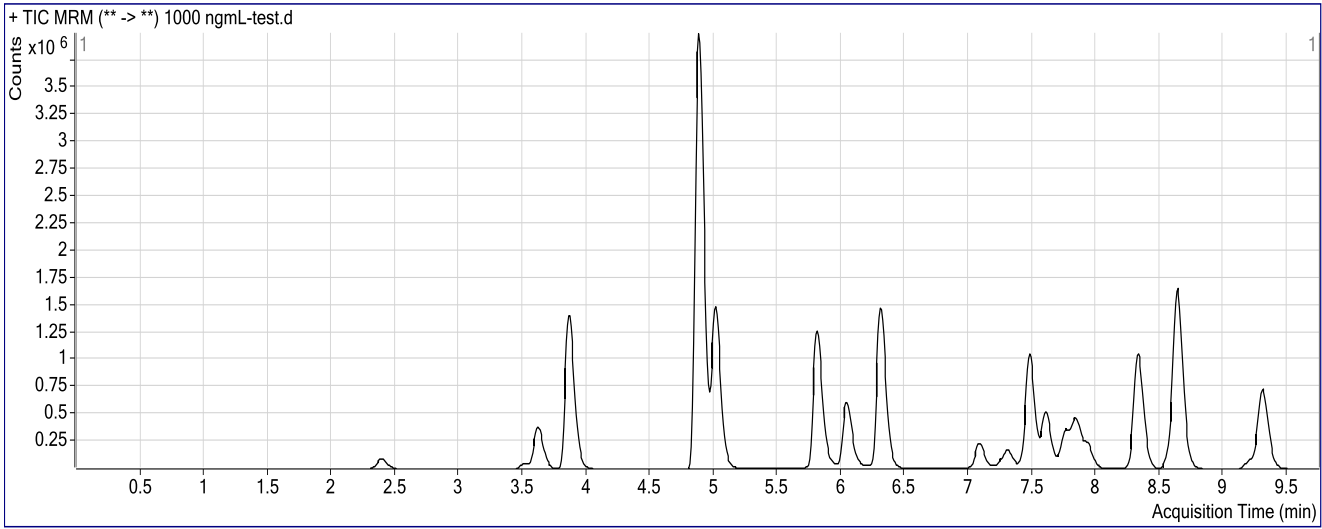
ISP FORENSICS Pocatello Benzodiazepine Analysis Report

Batch Data Path C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3134 Urine 032919 CS\QuantResults\am 13 worklist 3134.ba
Analysis Time 4/1/2019 7:50 AM **Analyst Name** datastor
Report Time 4/1/2019 7:54 AM **Reporter Name** datastor
Last Calib Update 4/1/2019 7:50 AM **Batch State** Processed

Analysis Info

Acq Time 2019-03-29 15:33 **Data File** 1000 ngmL-test.d
Sample Type Calibration **Sample Name** 1000 ngmL
Dilution 1 **Acq Method** Benzos_Z_Drugs_ACN_FA_ISP_2019.m
Position P1-A7 **Sample Info** Worklist 3134
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	2.392	447854	244393	1.8325	978.2520
7-Aminoflunitrazepam	7-Aminoflunitrazepam-D7 ISTD	3.623	1595111	244393	6.5268	962.9929
zopiclone	Nordiazepam-D5 ISTD	3.867	3758846	102797	36.5655	984.3025
zolpidem	Nordiazepam-D5 ISTD	4.883	15149434	102797	147.3716	968.8468
Chlordiazepoxide	Nordiazepam-D5 ISTD	5.019	4775461	102797	46.4550	979.9569
quetiapine	Temazepam-D5 ISTD	5.809	3932927	671091	5.8605	960.6120
Midazolam	Clonazepam-D4 ISTD	6.047	2280024	158123	14.4193	954.7766
Flurazepam	Diazepam-D5 ISTD	6.302	6257406	247611	25.2711	913.9778
Nitrazepam	Clonazepam-D4 ISTD	7.085	746093	158123	4.7184	1010.5412
alpha-Hydroxyalprazolam	alphahydroxyalprazolam-D5 ISTD	7.256	167409	30769	5.4409	1110.9588
alpha-hydroxytriazolam	Nordiazepam-D5 ISTD	7.306	490064	102797	4.7673	1010.4147
Oxazepam	Nordiazepam-D5 ISTD	7.480	3248414	102797	31.6001	1000.1510
Nordiazepam	Nordiazepam-D5 ISTD	7.609	1494806	102797	14.5413	989.2032
Clonazepam	Clonazepam-D4 ISTD	7.764	1152485	158123	7.2885	991.8350
Lorazepam	Nordiazepam-D5 ISTD	7.839	431063	102797	4.1933	1002.7089
Alprazolam	alphahydroxyalprazolam-D5 ISTD	7.934	1109153	30769	36.0481	1006.7868
Flunitrazepam	Clonazepam-D4 ISTD	8.327	3949418	158123	24.9769	972.7728
Temazepam	Temazepam-D5 ISTD	8.639	6574301	671091	9.7964	996.6145
Diazepam	Diazepam-D5 ISTD	9.310	2928119	247611	11.8255	962.6167

ISP FORENSICS

Pocatello

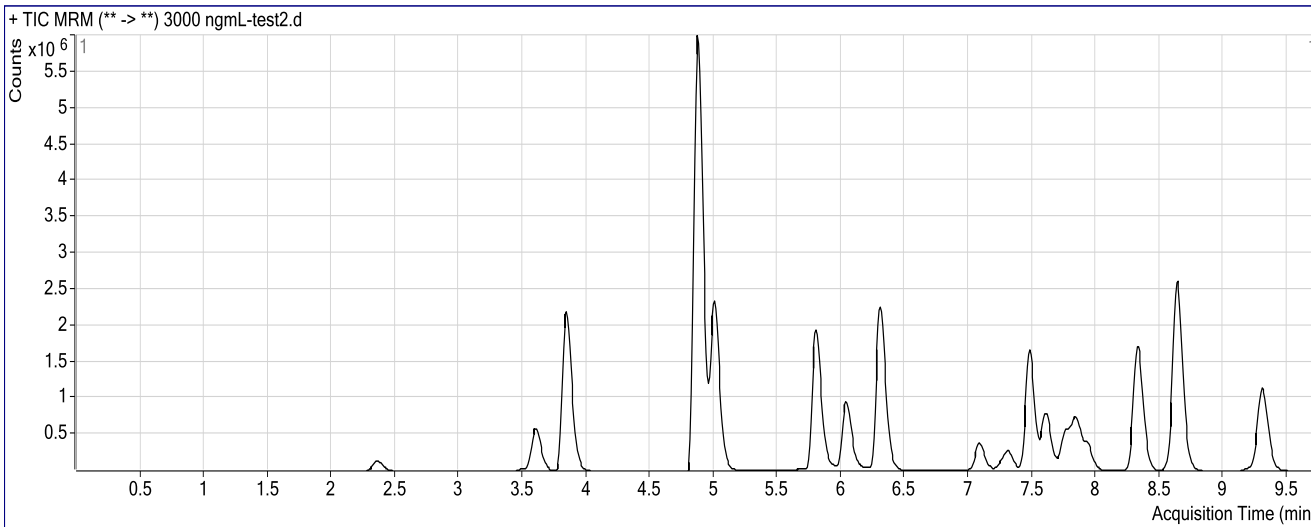
Benzodiazepine Analysis Report

Batch Data Path	C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3134 Urine 032919 CS\QuantResults\am 13 worklist 3134.ba		
Analysis Time	4/1/2019 7:50 AM	Analyst Name	datastor
Report Time	4/1/2019 7:54 AM	Reporter Name	datastor
Last Calib Update	4/1/2019 7:50 AM	Batch State	Processed

Analysis Info

Acq Time	2019-03-29 15:48	Data File	3000 ngmL-test2.d
Sample Type	Calibration	Sample Name	3000 ngmL
Dilution	1	Acq Method	Benzos_Z_Drugs_ACN_FA_ISP_2019.m
Position	P1-A8	Sample Info	Worklist 3134
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	2.359	691307	131030	5.2759	3005.2392
7-Aminoflunitrazepam	7-Aminoflunitrazepam-D7 ISTD	3.606	2420967	131030	18.4765	3011.0249
zopiclone	Nordiazepam-D5 ISTD	3.842	6063109	52210	116.1292	3122.3226
zolpidem	Nordiazepam-D5 ISTD	4.875	23800472	52210	455.8603	3029.2415
Chlordiazepoxide	Nordiazepam-D5 ISTD	5.011	7642578	52210	146.3815	3014.6984
quetiapine	Temazepam-D5 ISTD	5.800	6106901	355006	17.2022	3013.2391
Midazolam	Clonazepam-D4 ISTD	6.038	3580218	90466	39.5755	3014.6350
Flurazepam	Diazepam-D5 ISTD	6.302	10036786	127212	78.8984	3112.3360
Nitrazepam	Clonazepam-D4 ISTD	7.085	1206068	90466	13.3318	2982.8025
alpha-Hydroxyalprazolam	alphahydroxyalprazolam-D5 ISTD	7.256	248384	16269	15.2671	2979.3216
alpha-hydroxytriazolam	Nordiazepam-D5 ISTD	7.306	781387	52210	14.9662	2996.8297
Oxazepam	Nordiazepam-D5 ISTD	7.480	5342259	52210	102.3225	2991.8109
Nordiazepam	Nordiazepam-D5 ISTD	7.609	2328342	52210	44.5957	3030.5399
Clonazepam	Clonazepam-D4 ISTD	7.756	1846233	90466	20.4081	3001.7026
Lorazepam	Nordiazepam-D5 ISTD	7.839	700200	52210	13.4112	2966.0953
Alprazolam	alphahydroxyalprazolam-D5 ISTD	7.934	1792224	16269	110.1600	3067.8439
Flunitrazepam	Clonazepam-D4 ISTD	8.327	6446457	90466	71.2587	3035.5028
Temazepam	Temazepam-D5 ISTD	8.639	10698913	355006	30.1372	3004.8537
Diazepam	Diazepam-D5 ISTD	9.310	4641263	127212	36.4846	2967.7657