















Worklist: 3330

<u>LAB_CASE</u>	<u>ITEM</u>	<u>TASK_ID</u>	<u>DESCRIPTION</u>	
C2019-0684	2	149693	AM 13 Urine LCMS-QQQ Benzodiazepines and ;	
M2019-1533	2	149694	AM 13 Urine LCMS-QQQ Benzodiazepines and ;	
P2019-1130	1	149697	AM 13 Urine LCMS-QQQ Benzodiazepines and ;	
P2019-1152	1	149698	AM 13 Urine LCMS-QQQ Benzodiazepines and ;	
P2019-1173	1	149699	AM 13 Urine LCMS-QQQ Benzodiazepines and ;	
P2019-1174	1	149700	AM 13 Urine LCMS-QQQ Benzodiazepines and ;	
P2019-1181	1	149701	AM 13 Urine LCMS-QQQ Benzodiazepines and ;	
P2019-1204	1	149702	AM 13 Urine LCMS-QQQ Benzodiazepines and ;	
P2019-1214	1	149703	AM 13 Urine LCMS-QQQ Benzodiazepines and ;	
P2019-1218	1	149704	AM 13 Urine LCMS-QQQ Benzodiazepines and ;	
P2019-1227	2	149705	AM 13 Urine LCMS-QQQ Benzodiazepines and ;	
P2019-1254	1	149706	AM 13 Urine LCMS-QQQ Benzodiazepines and ;	
P2019-1262	1	149707	AM 13 Urine LCMS-QQQ Benzodiazepines and ;	
P2019-1263	1	149708	AM 13 Urine LCMS-QQQ Benzodiazepines and ;	

Instrument was going to be taken down, so all samples in the batch were run using this method before the samples were screened. CJ

AM 13: Benzo and Z-Drugs LCMS Urine Extraction

Extraction Date: 04/24/2019
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 3330 Urine 042419 CS\QuantResults\am 13 worklist 3330
- 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:

7-aminoflunitrazepam was not evaluated for this run. The cutoff for nordiazepam and alpha-hydroxy-alprazolam will be 100ng/mL for this run. Samples cannot be reported as inconclusive for the following compounds for this run: nitrazepam, alprazolam, and diazepam. CS



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>	<i>Date Out of Service</i>	<i>Initials</i>
Negative Urine	POC112116	N/A	11/21/2016		
Positive Control	WS010818	01/08/2019	01/08/2018		
Calibrator Solution	WS010818	01/08/2019	01/08/2018		
ISTD Solution	WS010818	01/08/2019	01/08/2018		
2M Acetate Buffer	050511	N/A	05/05/2011		
B-glucuronidase	Kura	4109	08/04/2015		
Toxi-A Tube	61501	N/A	06/26/2017		
0.1% Formic Acid in Water (LCMS Grade) (Mobile Phase A)	Fisher 166541	N/A	06/26/2017		
0.1% Formic Acid in Acetonitrile (LCMS Grade) (Mobile Phase B)	Fisher 172886	N/A	06/26/2017		
Needle Rinse--75% LCMS MeOH in LCMS Water	BDH 15H250514	N/A	N/A		

2M Acetate Buffer (Lot: 050511)

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
Sodium Acetate Trihydrate	Fisher	024304
Water	Culligan	N/A

Needle Rinse

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
Methanol (LC Grade)	BDH	15H250514
Water (LC Grade)	Fisher	102501

Positive Control Working Solution (Lot: WS010818)

<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: WS010818)

<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: WS010818)

<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	FE04231401	May 2019
Midazolam	Cerilliant	FE01161704	April 2022
Nitrazepam	Cerilliant	FE01291503	February 2019
Nordiazepam	Cerilliant	FE11181503	November 2020
Oxazepam	Cerilliant	FE05261603	June 2020
Quetiapine	Cerilliant	FN08291602	October 2021
Temazepam	Cerilliant	FE08191401	October 2019
Zolpidem	Cerilliant	FE12181402	February 2020
Zopiclone	Cerilliant	FE12031501	December 2020
Methanol	Ricca	1601824	N/A

ISP Forensics Calibration Curve Report

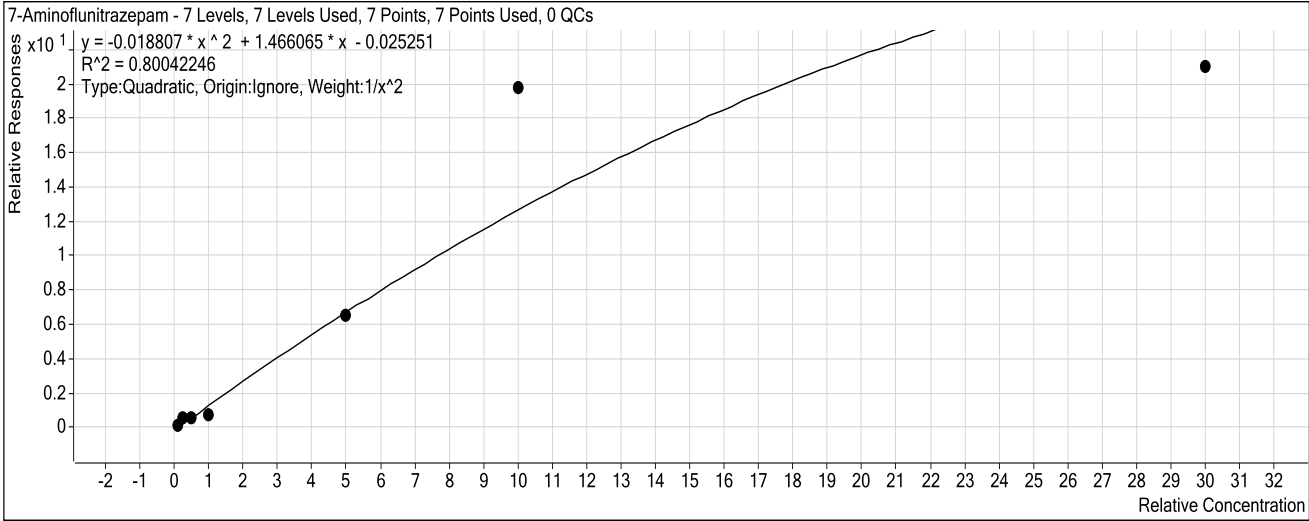
Samples will not be evaluated for this compound for this run.

CS

Batch Data Path C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3330 Urine 042419 CS\QuantResults\am 13 worklist 3330.batch.bin

Last Calib Update 4/25/2019 11:01 AM **Analyst Name** ISP TOX

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

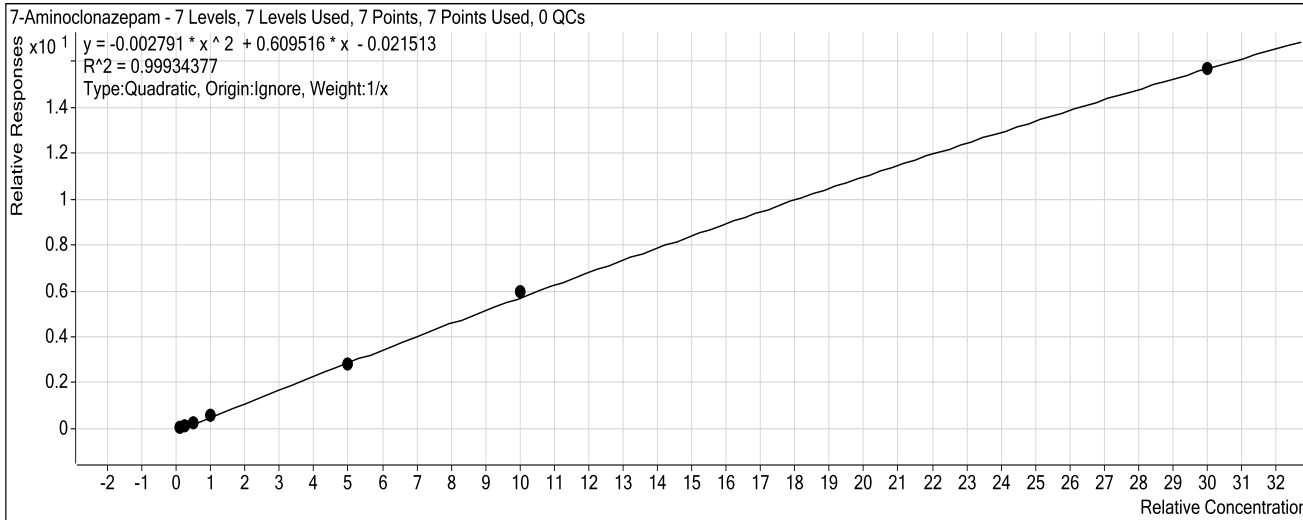


Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	1	<input checked="" type="checkbox"/>	10	0.0	0.0
25 ng/mL	2	<input checked="" type="checkbox"/>	25	0.0	0.0
50 ng/mL	3	<input checked="" type="checkbox"/>	50	0.0	0.0
100 ng/mL	4	<input checked="" type="checkbox"/>	100	0.0	0.0
500 ng/mL	5	<input checked="" type="checkbox"/>	500	0.0	0.0
1000 ng/mL	6	<input checked="" type="checkbox"/>	1000	0.0	0.0
3000 ng/mL	7	<input checked="" type="checkbox"/>	3000	0.0	0.0

ISP Forensics Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3330 Urine 042419 CS\QuantResults\am 13 worklist 3330.batch.bin
Last Calib Update 4/25/2019 11:01 AM **Analyst Name** ISP TOX

Target Compound 7-Aminoclonazepam
Internal Standard Clonazepam-D4 ISTD



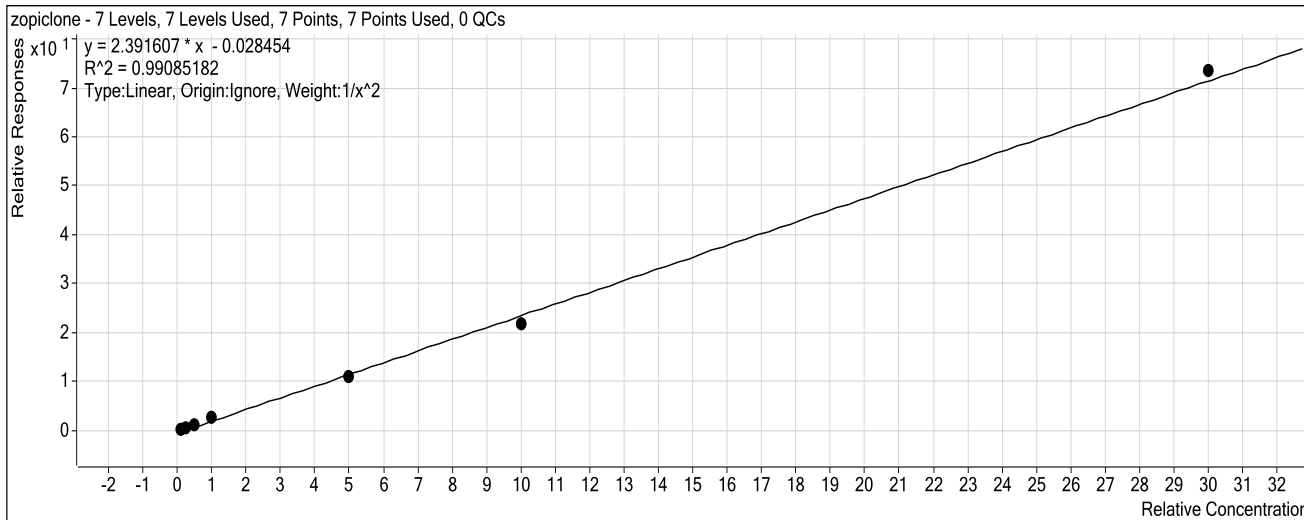
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	1	<input checked="" type="checkbox"/>	10	10.7	107.1
25 ng/mL	2	<input checked="" type="checkbox"/>	25	24.2	96.6
50 ng/mL	3	<input checked="" type="checkbox"/>	50	48.3	96.7
100 ng/mL	4	<input checked="" type="checkbox"/>	100	101.7	101.7
500 ng/mL	5	<input checked="" type="checkbox"/>	500	474.4	94.9
1000 ng/mL	6	<input checked="" type="checkbox"/>	1000	1034.0	103.4
3000 ng/mL	7	<input checked="" type="checkbox"/>	3000	2991.4	99.7

CS

ISP Forensics Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3330 Urine 042419 CS\QuantResults\am 13 worklist 3330.batch.bin
Last Calib Update 4/25/2019 11:01 AM **Analyst Name** ISP TOX

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



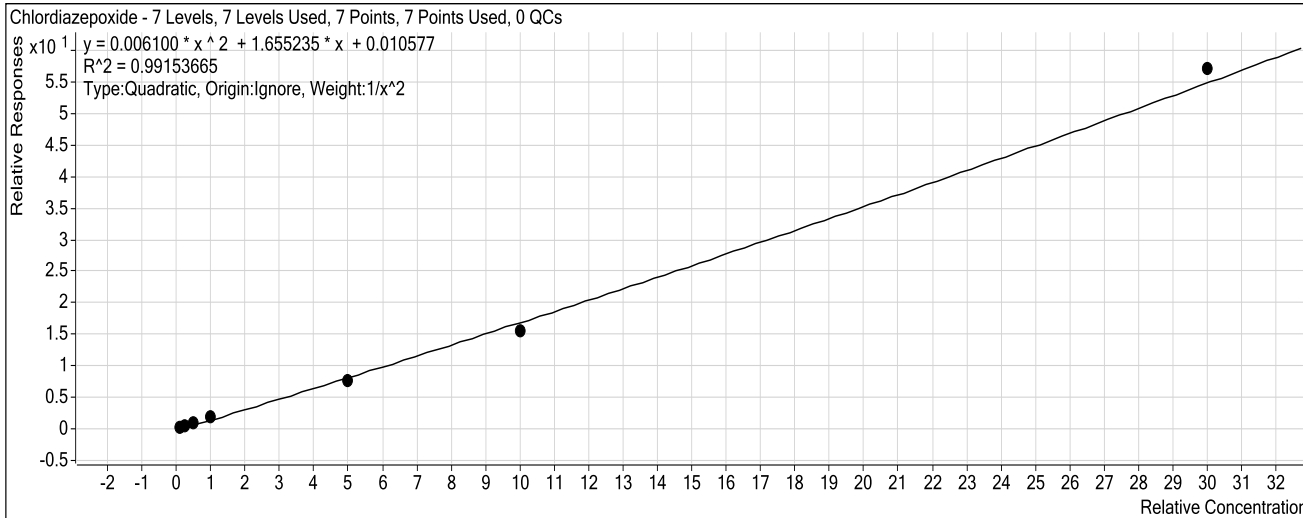
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	1	<input checked="" type="checkbox"/>	10	9.9	99.4
25 ng/mL	2	<input checked="" type="checkbox"/>	25	24.4	97.7
50 ng/mL	3	<input checked="" type="checkbox"/>	50	50.4	100.7
100 ng/mL	4	<input checked="" type="checkbox"/>	100	116.3	116.3
500 ng/mL	5	<input checked="" type="checkbox"/>	500	459.5	91.9
1000 ng/mL	6	<input checked="" type="checkbox"/>	1000	914.1	91.4
3000 ng/mL	7	<input checked="" type="checkbox"/>	3000	3078.4	102.6

ISP Forensics Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3330 Urine 042419 CS\QuantResults\am 13 worklist 3330.batch.bin

Last Calib Update 4/25/2019 11:01 AM **Analyst Name** ISP TOX

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

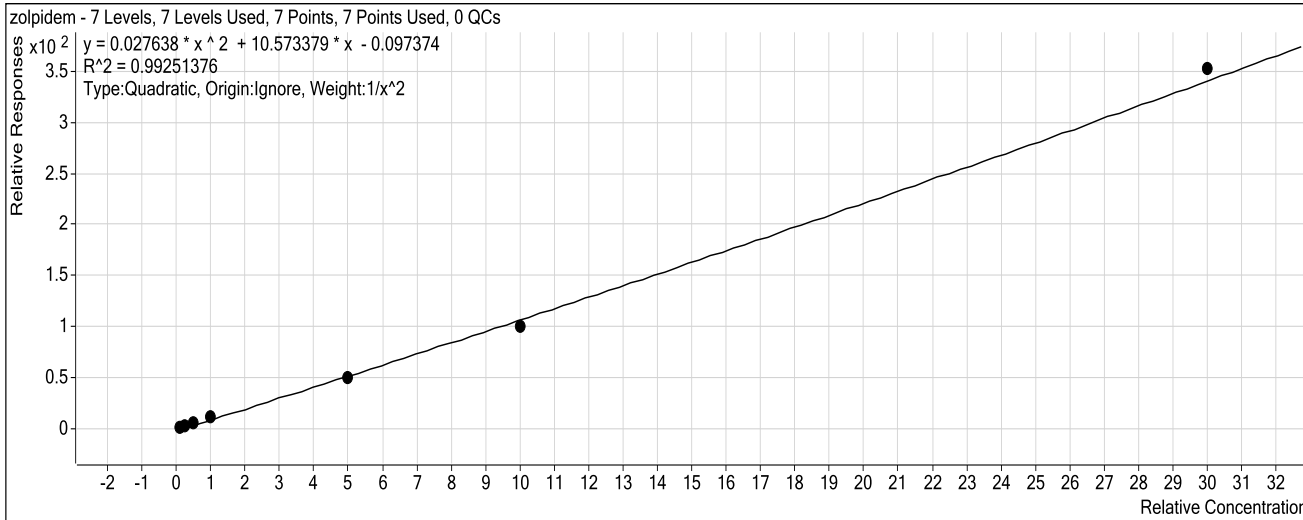


Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	1	<input checked="" type="checkbox"/>	10	9.9	99.2
25 ng/mL	2	<input checked="" type="checkbox"/>	25	24.0	95.9
50 ng/mL	3	<input checked="" type="checkbox"/>	50	54.0	108.0
100 ng/mL	4	<input checked="" type="checkbox"/>	100	111.6	111.6
500 ng/mL	5	<input checked="" type="checkbox"/>	500	452.8	90.6
1000 ng/mL	6	<input checked="" type="checkbox"/>	1000	914.5	91.4
3000 ng/mL	7	<input checked="" type="checkbox"/>	3000	3102.7	103.4

ISP Forensics Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3330 Urine 042419 CS\QuantResults\am 13 worklist 3330.batch.bin
Last Calib Update 4/25/2019 11:01 AM **Analyst Name** ISP TOX

Target Compound zolpidem
Internal Standard Nordiazepam-D5 ISTD

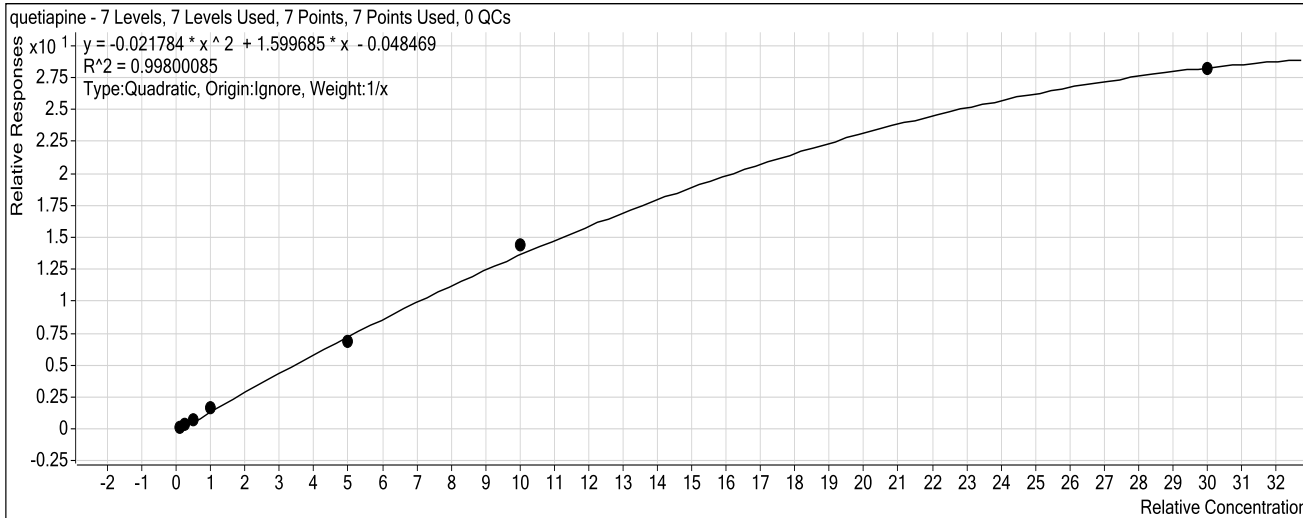


Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ngmL	1	<input checked="" type="checkbox"/>	10	10.0	100.3
25 ngmL	2	<input checked="" type="checkbox"/>	25	23.6	94.3
50ngmL	3	<input checked="" type="checkbox"/>	50	52.0	104.1
100 ngmL	4	<input checked="" type="checkbox"/>	100	113.3	113.3
500ngmL	5	<input checked="" type="checkbox"/>	500	463.0	92.6
1000 ngmL	6	<input checked="" type="checkbox"/>	1000	924.3	92.4
3000 ngmL	7	<input checked="" type="checkbox"/>	3000	3089.2	103.0

ISP Forensics Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3330 Urine 042419 CS\QuantResults\am 13 worklist 3330.batch.bin
Last Calib Update 4/25/2019 11:01 AM **Analyst Name** ISP TOX

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



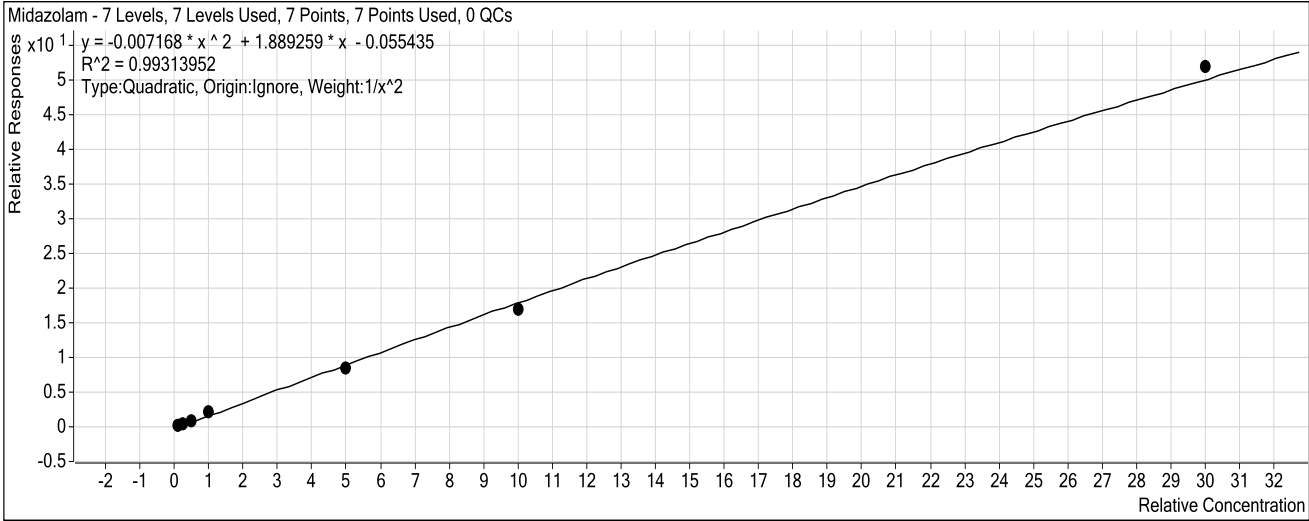
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	1	<input checked="" type="checkbox"/>	10	10.5	104.6
25 ng/mL	2	<input checked="" type="checkbox"/>	25	24.3	97.3
50 ng/mL	3	<input checked="" type="checkbox"/>	50	48.0	96.0
100 ng/mL	4	<input checked="" type="checkbox"/>	100	105.5	105.5
500 ng/mL	5	<input checked="" type="checkbox"/>	500	460.0	92.0
1000 ng/mL	6	<input checked="" type="checkbox"/>	1000	1054.2	105.4
3000 ng/mL	7	<input checked="" type="checkbox"/>	3000	2961.0	98.7

ISP Forensics Calibration Curve Report

CS

Batch Data Path C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3330 Urine 042419 CS\QuantResults\am 13 worklist 3330.batch.bin
Last Calib Update 4/25/2019 11:01 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	9.9	99.4
25 ng/mL	2	<input checked="" type="checkbox"/>	25	24.5	98.2
50 ng/mL	3	<input checked="" type="checkbox"/>	50	50.8	101.5
100 ng/mL	4	<input checked="" type="checkbox"/>	100	112.8	112.8
500 ng/mL	5	<input checked="" type="checkbox"/>	500	454.2	90.8
1000 ng/mL	6	<input checked="" type="checkbox"/>	1000	935.6	93.6
3000 ng/mL	7	<input checked="" type="checkbox"/>	3000	3118.4	103.9

ISP Forensics Calibration Curve Report

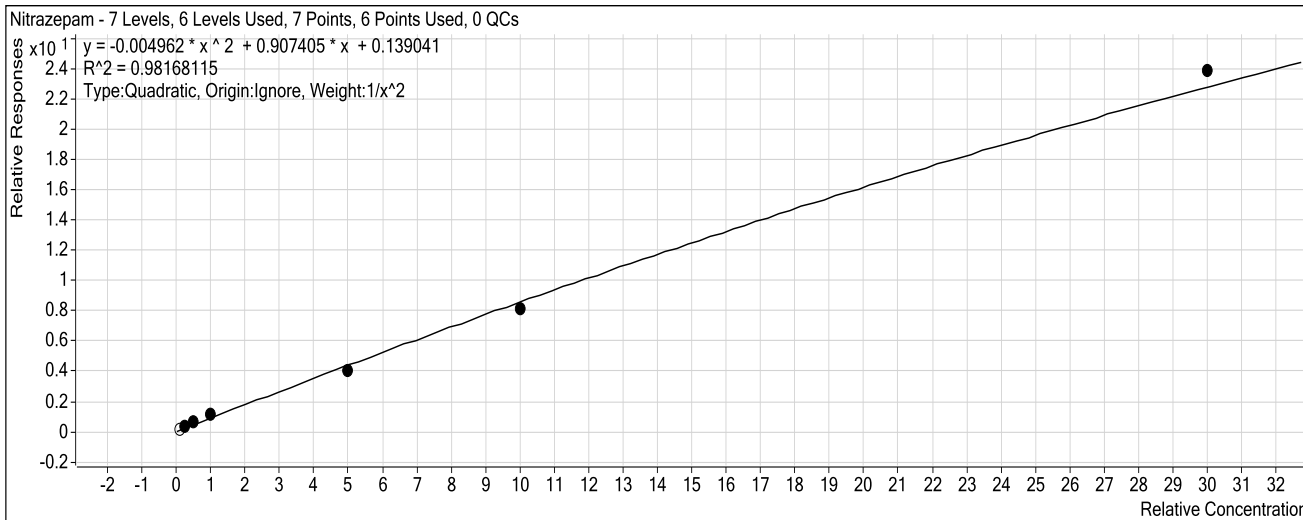
Samples cannot be called
inconclusive for this compound for
this run

CS

Batch Data Path C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3330 Urine 042419 CS\QuantResults\am 13
worklist 3330.batch.bin

Last Calib Update 4/25/2019 11:01 AM **Analyst Name** ISP TOX

Target Compound Nitrazepam
Internal Standard Clonazepam-D4 ISTD



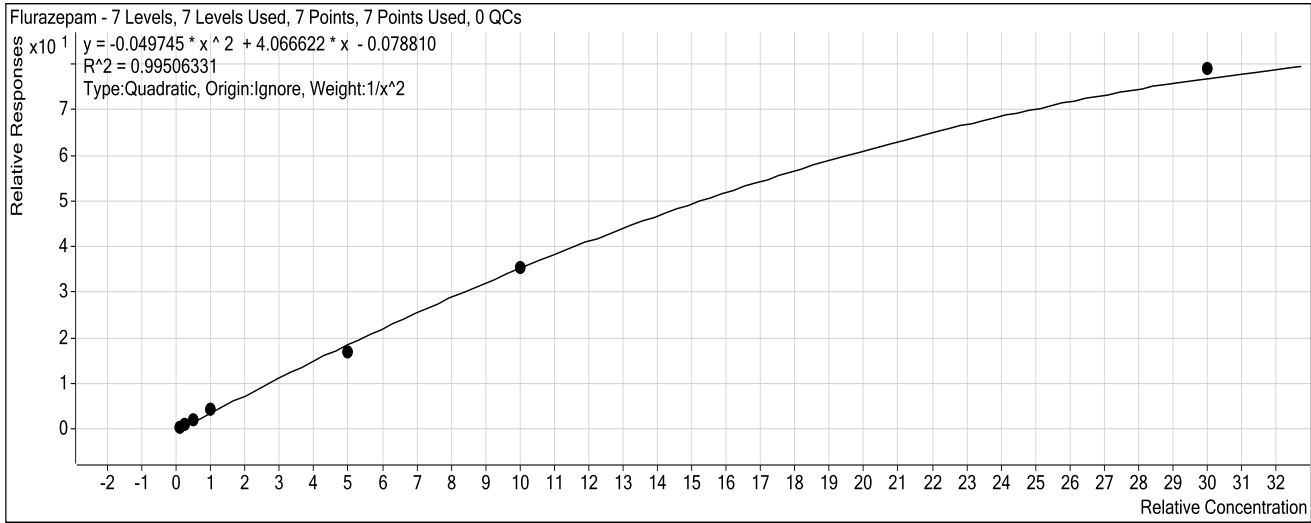
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	1	<input type="checkbox"/>	10	0.1	1.4
25 ng/mL	2	<input checked="" type="checkbox"/>	25	22.8	91.2
50 ng/mL	3	<input checked="" type="checkbox"/>	50	57.4	114.7
100 ng/mL	4	<input checked="" type="checkbox"/>	100	108.8	108.8
500 ng/mL	5	<input checked="" type="checkbox"/>	500	440.0	88.0
1000 ng/mL	6	<input checked="" type="checkbox"/>	1000	922.9	92.3
3000 ng/mL	7	<input checked="" type="checkbox"/>	3000	3169.1	105.6

CS

ISP Forensics Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3330 Urine 042419 CS\QuantResults\am 13 worklist 3330.batch.bin
Last Calib Update 4/25/2019 11:01 AM **Analyst Name** ISP TOX

Target Compound Flurazepam
Internal Standard Diazepam-D5 ISTD



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	1	<input checked="" type="checkbox"/>	10	9.9	98.8
25 ng/mL	2	<input checked="" type="checkbox"/>	25	25.2	100.7
50 ng/mL	3	<input checked="" type="checkbox"/>	50	50.6	101.3
100 ng/mL	4	<input checked="" type="checkbox"/>	100	108.5	108.5
500 ng/mL	5	<input checked="" type="checkbox"/>	500	443.3	88.7
1000 ng/mL	6	<input checked="" type="checkbox"/>	1000	991.2	99.1
3000 ng/mL	7	<input checked="" type="checkbox"/>	3000	3198.0	106.6

ISP Forensics Calibration Curve Report

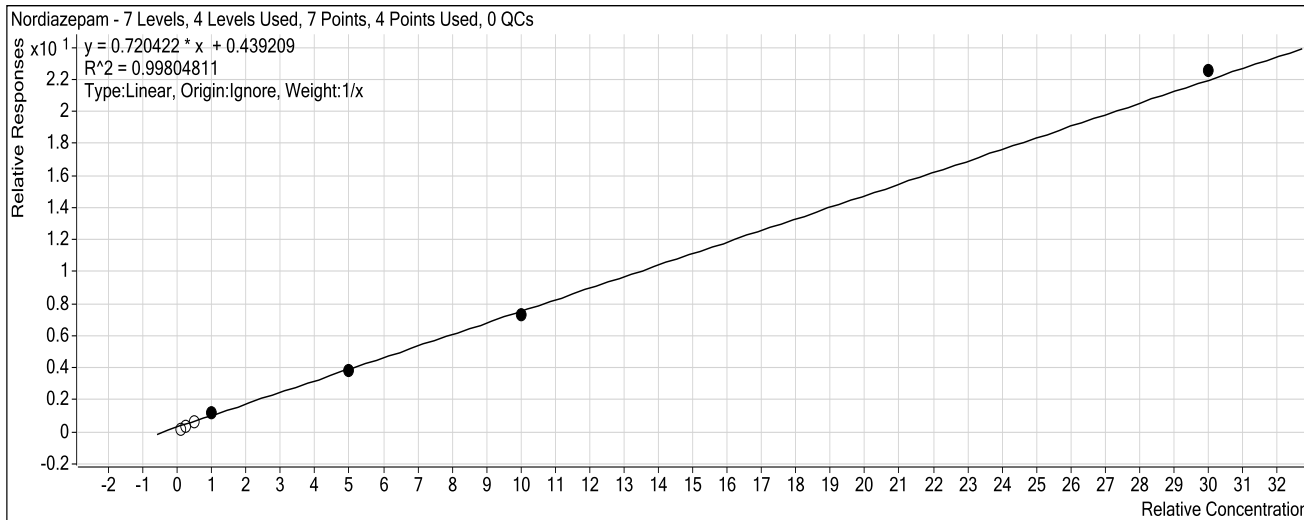
Cutoff for this compound is
100ng/mL for this run

g

Batch Data Path C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3330 Urine 042419 CS\QuantResults\am 13 worklist 3330.batch.bin

Last Calib Update 4/25/2019 11:01 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 type="checkbox"/>	10	0.0	0.0
25 ng/mL	2	<input type="checkbox"/>	25	0.0	0.0
50 ng/mL	3	<input type="checkbox"/>	50	28.8	57.6
100 ng/mL	4	<input checked="" type="checkbox"/>	100	108.4	108.4
500 ng/mL	5	<input checked="" type="checkbox"/>	500	472.1	94.4
1000 ng/mL	6	<input checked="" type="checkbox"/>	1000	948.1	94.8
3000 ng/mL	7	<input checked="" type="checkbox"/>	3000	3071.4	102.4

ISP Forensics Calibration Curve Report

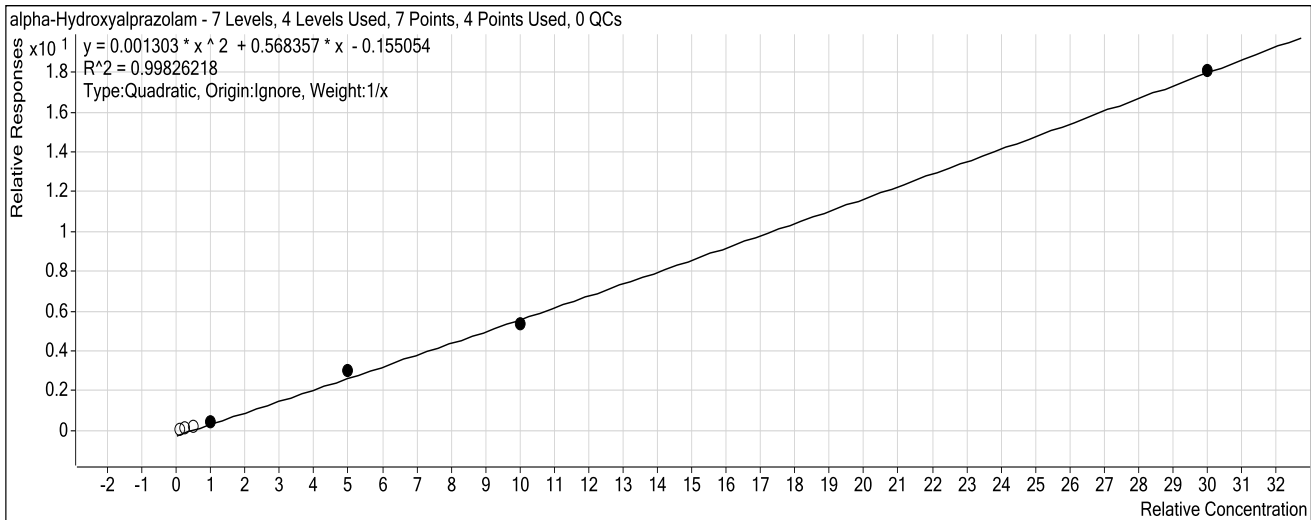
Cutoff for this compound
is 100ng/mL for this run

CS

Batch Data Path C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3330 Urine 042419 CS\QuantResults\am 13
worklist 3330.batch.bin

Last Calib Update 4/25/2019 11:01 AM **Analyst Name** ISP TOX

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

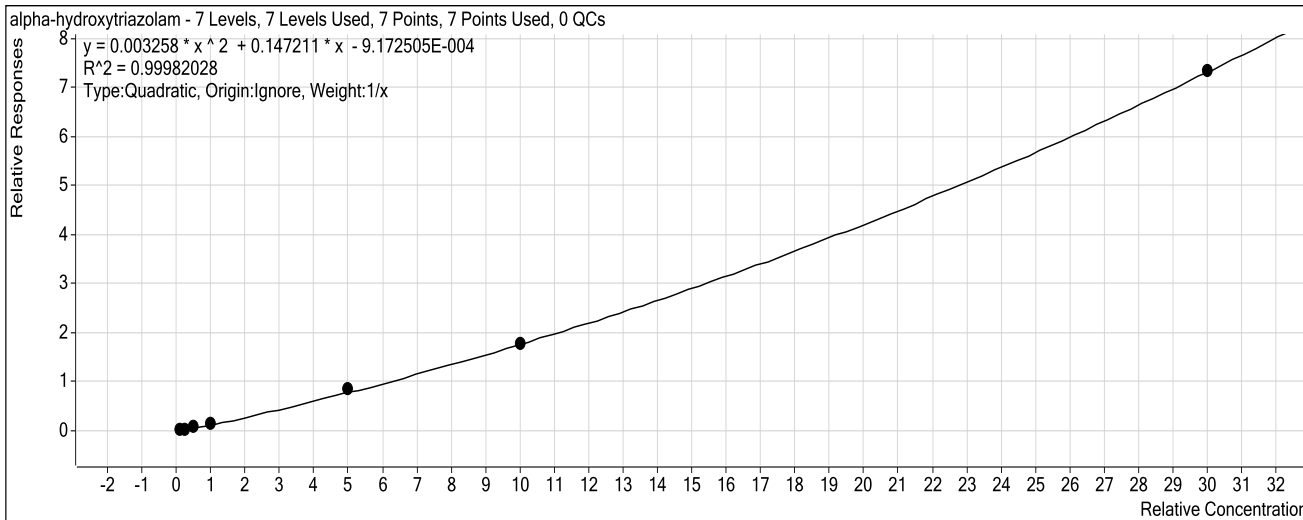


Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	1	<input type="checkbox"/>	10	33.3	332.7
25 ng/mL	2	<input type="checkbox"/>	25	43.2	172.7
50 ng/mL	3	<input type="checkbox"/>	50	60.9	121.8
100 ng/mL	4	<input checked="" type="checkbox"/>	100	95.7	95.7
500 ng/mL	5	<input checked="" type="checkbox"/>	500	543.6	108.7
1000 ng/mL	6	<input checked="" type="checkbox"/>	1000	952.5	95.3
3000 ng/mL	7	<input checked="" type="checkbox"/>	3000	3008.1	100.3

ISP Forensics Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3330 Urine 042419 CS\QuantResults\am 13 worklist 3330.batch.bin
Last Calib Update 4/25/2019 11:01 AM **Analyst Name** ISP TOX

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

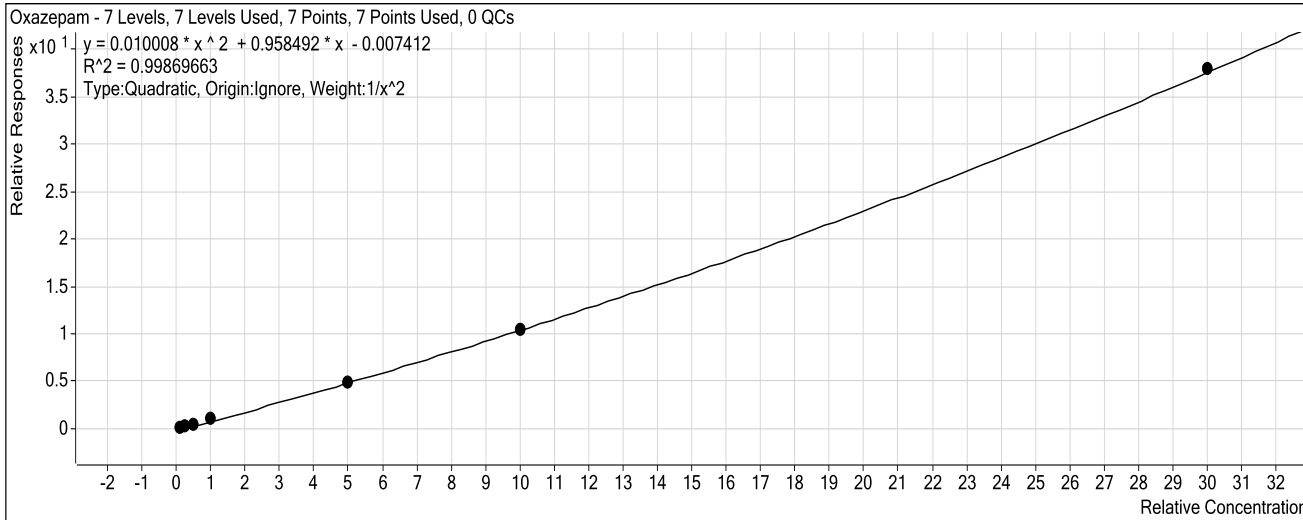


Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	1	<input checked="" type="checkbox"/>	10	11.0	110.0
25 ng/mL	2	<input checked="" type="checkbox"/>	25	22.5	90.1
50 ng/mL	3	<input checked="" type="checkbox"/>	50	46.7	93.3
100 ng/mL	4	<input checked="" type="checkbox"/>	100	105.3	105.3
500 ng/mL	5	<input checked="" type="checkbox"/>	500	513.0	102.6
1000 ng/mL	6	<input checked="" type="checkbox"/>	1000	985.6	98.6
3000 ng/mL	7	<input checked="" type="checkbox"/>	3000	3001.8	100.1

ISP Forensics Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3330 Urine 042419 CS\QuantResults\am 13 worklist 3330.batch.bin
Last Calib Update 4/25/2019 11:01 AM **Analyst Name** ISP TOX

Target Compound Oxazepam
Internal Standard Nordiazepam-D5 ISTD



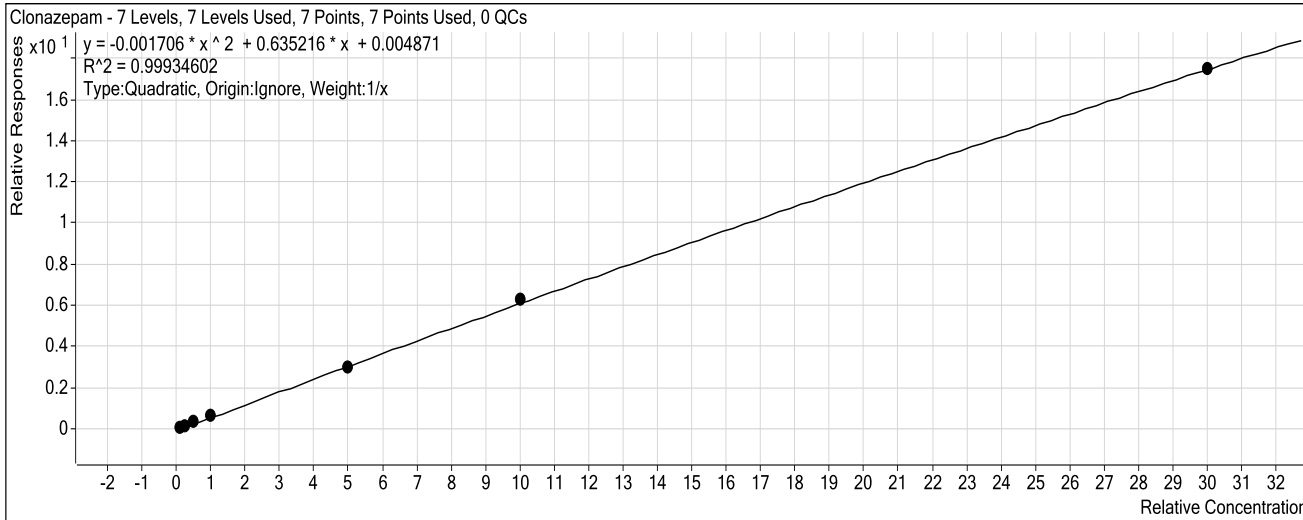
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	1	<input checked="" type="checkbox"/>	10	10.1	100.7
25 ng/mL	2	<input checked="" type="checkbox"/>	25	24.1	96.5
50 ng/mL	3	<input checked="" type="checkbox"/>	50	50.3	100.7
100 ng/mL	4	<input checked="" type="checkbox"/>	100	106.4	106.4
500 ng/mL	5	<input checked="" type="checkbox"/>	500	483.5	96.7
1000 ng/mL	6	<input checked="" type="checkbox"/>	1000	985.9	98.6
3000 ng/mL	7	<input checked="" type="checkbox"/>	3000	3017.9	100.6

CS

ISP Forensics Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3330 Urine 042419 CS\QuantResults\am 13 worklist 3330.batch.bin
Last Calib Update 4/25/2019 11:01 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	8.9	89.0
25 ng/mL	2	<input checked="" type="checkbox"/>	25	24.1	96.3
50 ng/mL	3	<input checked="" type="checkbox"/>	50	56.1	112.3
100 ng/mL	4	<input checked="" type="checkbox"/>	100	105.7	105.7
500 ng/mL	5	<input checked="" type="checkbox"/>	500	476.0	95.2
1000 ng/mL	6	<input checked="" type="checkbox"/>	1000	1015.9	101.6
3000 ng/mL	7	<input checked="" type="checkbox"/>	3000	2998.3	99.9

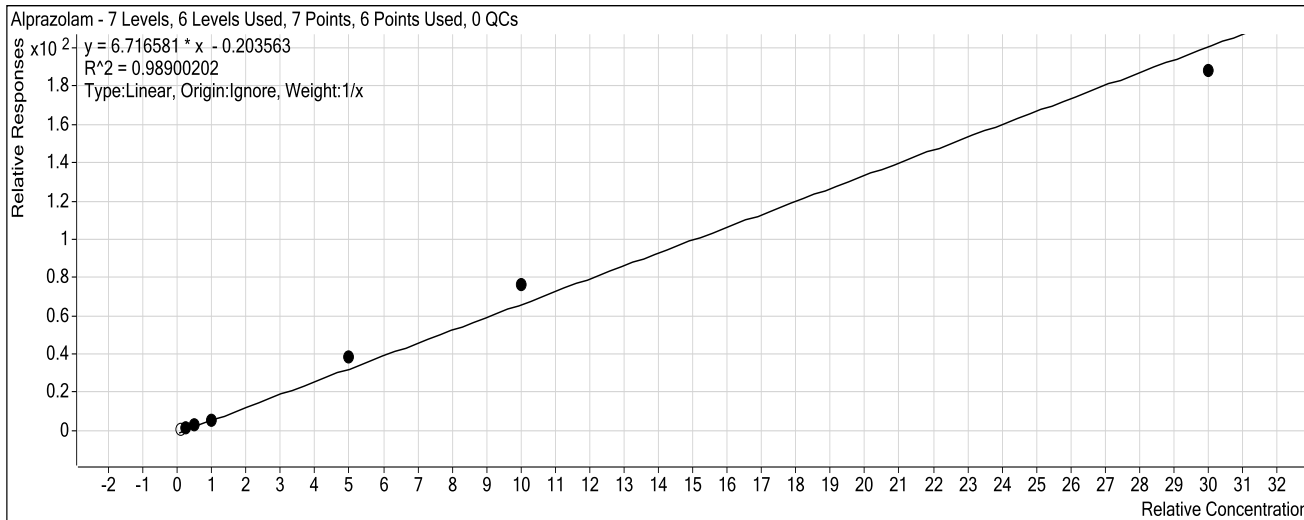
ISP Forensics Calibration Curve Report

Samples cannot be reported as inconclusive for this compound for this run

CS

Batch Data Path C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3330 Urine 042419 CS\QuantResults\am 13 worklist 3330.batch.bin
Last Calib Update 4/25/2019 11:01 AM **Analyst Name** ISP TOX

Target Compound Alprazolam
Internal Standard alphahydroxyalprazolam-D5 ISTD

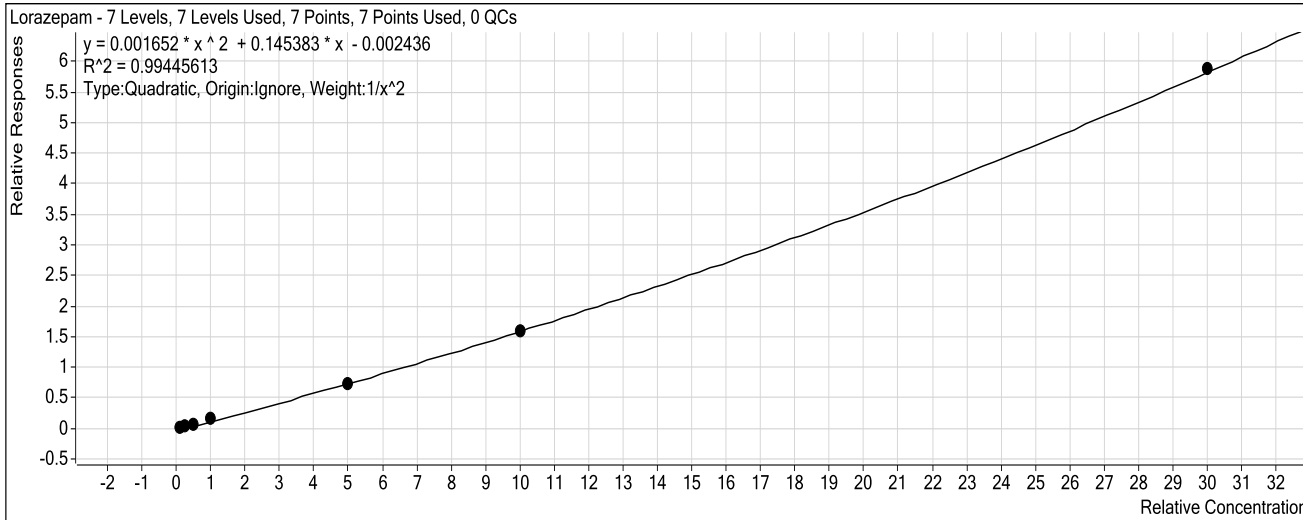


Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	1	<input type="checkbox"/>	10	10.1	100.8
25 ng/mL	2	<input checked="" type="checkbox"/>	25	27.2	108.7
50 ng/mL	3	<input checked="" type="checkbox"/>	50	41.6	83.2
100 ng/mL	4	<input checked="" type="checkbox"/>	100	85.6	85.6
500 ng/mL	5	<input checked="" type="checkbox"/>	500	575.1	115.0
1000 ng/mL	6	<input checked="" type="checkbox"/>	1000	1138.4	113.8
3000 ng/mL	7	<input checked="" type="checkbox"/>	3000	2807.0	93.6

ISP Forensics Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3330 Urine 042419 CS\QuantResults\am 13 worklist 3330.batch.bin
Last Calib Update 4/25/2019 11:01 AM **Analyst Name** ISP TOX

Target Compound Lorazepam
Internal Standard Nordiazepam-D5 ISTD

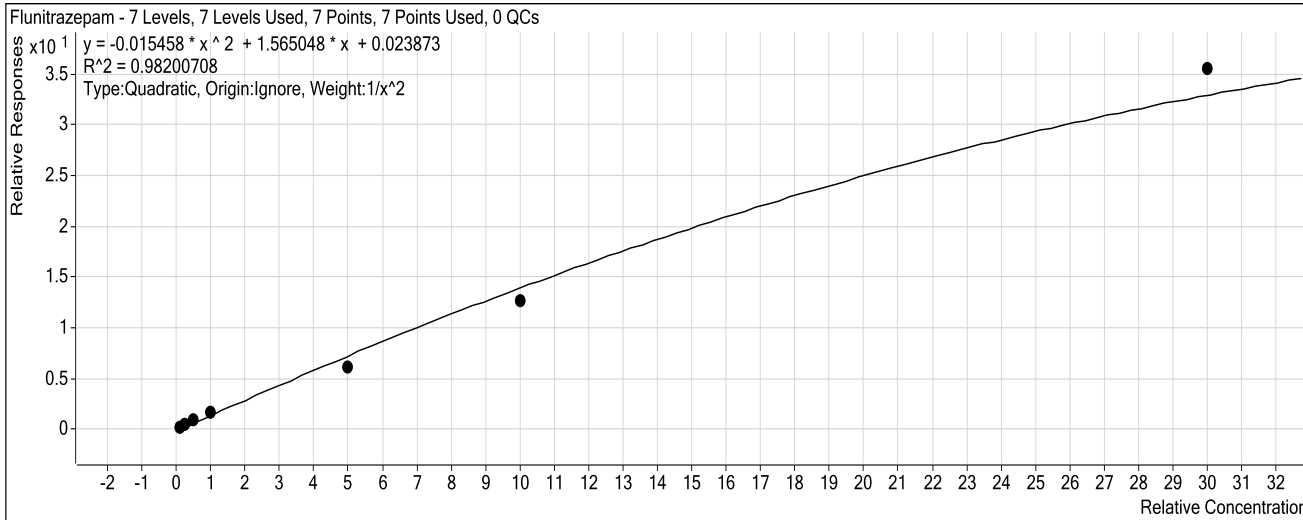


Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	1	<input checked="" type="checkbox"/>	10	10.3	103.3
25 ng/mL	2	<input checked="" type="checkbox"/>	25	21.8	87.1
50 ng/mL	3	<input checked="" type="checkbox"/>	50	52.6	105.1
100 ng/mL	4	<input checked="" type="checkbox"/>	100	109.3	109.3
500 ng/mL	5	<input checked="" type="checkbox"/>	500	480.6	96.1
1000 ng/mL	6	<input checked="" type="checkbox"/>	1000	986.1	98.6
3000 ng/mL	7	<input checked="" type="checkbox"/>	3000	3017.4	100.6

ISP Forensics Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3330 Urine 042419 CS\QuantResults\am 13 worklist 3330.batch.bin
Last Calib Update 4/25/2019 11:01 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	9.3	93.2
25 ng/mL	2	<input checked="" type="checkbox"/>	25	27.9	111.7
50 ng/mL	3	<input checked="" type="checkbox"/>	50	55.0	109.9
100 ng/mL	4	<input checked="" type="checkbox"/>	100	105.5	105.5
500 ng/mL	5	<input checked="" type="checkbox"/>	500	411.1	82.2
1000 ng/mL	6	<input checked="" type="checkbox"/>	1000	886.9	88.7
3000 ng/mL	7	<input checked="" type="checkbox"/>	3000	3440.9	114.7

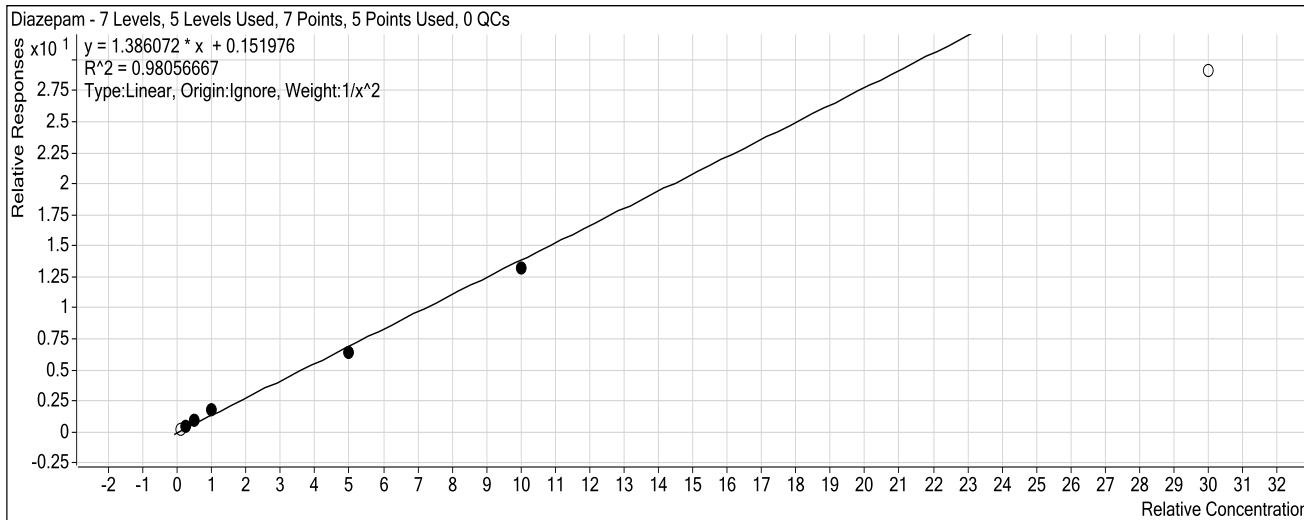
ISP Forensics Calibration Curve Report

Samples cannot be reported as inconclusive for this compound for this run

CS

Batch Data Path C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3330 Urine 042419 CS\QuantResults\am 13 worklist 3330.batch.bin
Last Calib Update 4/25/2019 11:01 AM **Analyst Name** ISP TOX

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



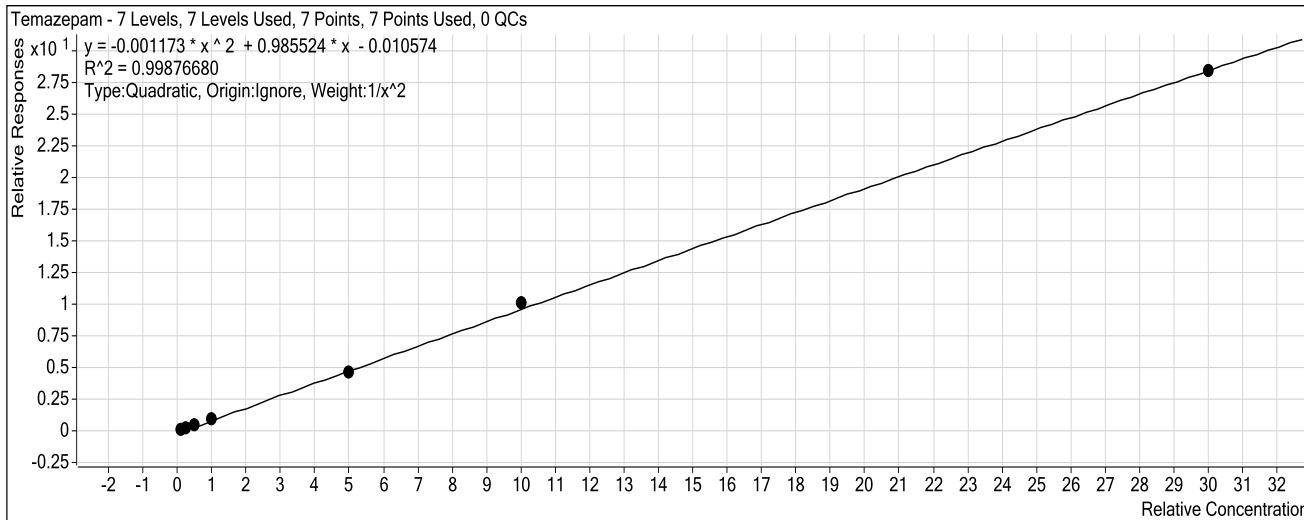
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	1	<input type="checkbox"/>	10	2.1	20.8
25 ng/mL	2	<input checked="" type="checkbox"/>	25	23.2	92.7
50 ng/mL	3	<input checked="" type="checkbox"/>	50	54.1	108.3
100 ng/mL	4	<input checked="" type="checkbox"/>	100	115.1	115.1
500 ng/mL	5	<input checked="" type="checkbox"/>	500	448.8	89.8
1000 ng/mL	6	<input checked="" type="checkbox"/>	1000	941.0	94.1
3000 ng/mL	7	<input type="checkbox"/>	3000	2091.7	69.7

ISP Forensics Calibration Curve Report

CS

Batch Data Path C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3330 Urine 042419 CS\QuantResults\am 13 worklist 3330.batch.bin
Last Calib Update 4/25/2019 11:01 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	10.0	99.5
25 ng/mL	2	<input checked="" type="checkbox"/>	25	25.2	100.6
50 ng/mL	3	<input checked="" type="checkbox"/>	50	50.2	100.4
100 ng/mL	4	<input checked="" type="checkbox"/>	100	102.2	102.2
500 ng/mL	5	<input checked="" type="checkbox"/>	500	469.5	93.9
1000 ng/mL	6	<input checked="" type="checkbox"/>	1000	1036.2	103.6
3000 ng/mL	7	<input checked="" type="checkbox"/>	3000	2991.7	99.7

ISP FORENSICS

Pocatello

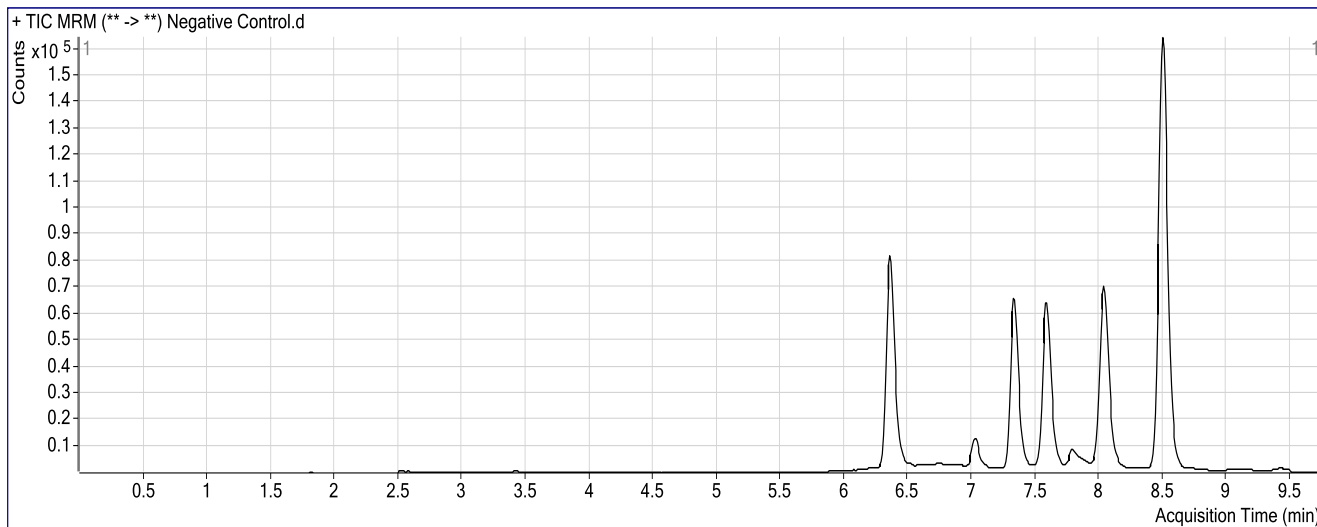
Benzodiazepine Analysis Report

Batch Data Path C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3330 Urine 042419 CS\QuantResults\am 13 wor
Analysis Time 4/25/2019 11:01 AM **Analyst Name** datastor
Report Time 4/25/2019 11:04 AM **Reporter Name** datastor
Last Calib Update 4/25/2019 11:01 AM **Batch State** Processed

Analysis Info

Acq Time 2019-04-24 21:26 **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 3330
Inj Vol -1 **Comment** AM 13 Benzo and Z by LCQQQ

Sample Chromatogram



CS

ISP FORENSICS

Pocatello

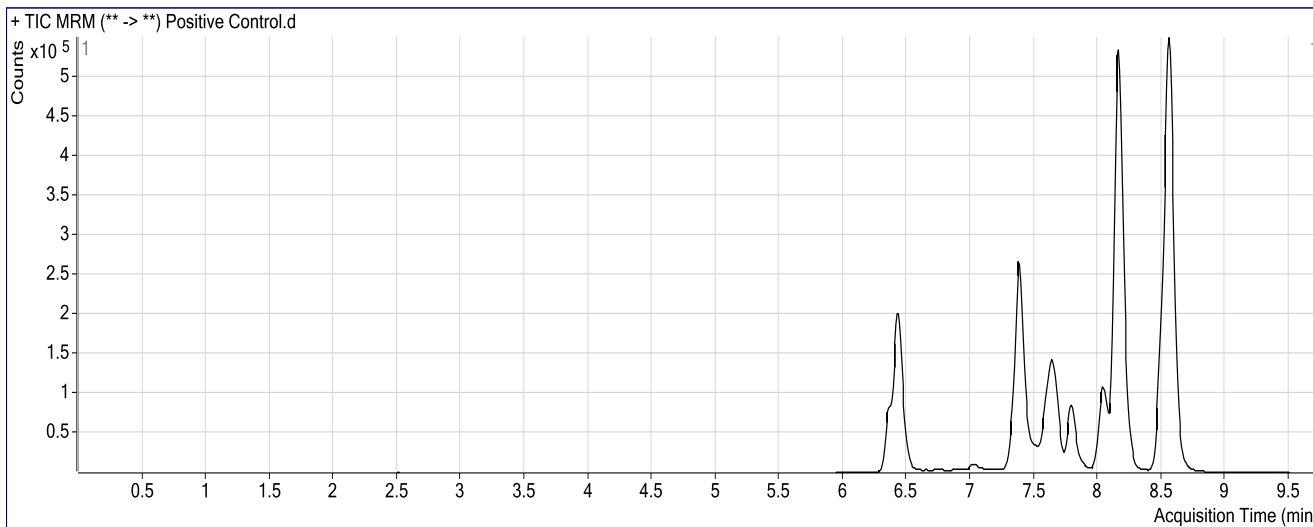
Benzodiazepine Analysis Report

Batch Data Path	C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3330 Urine 042419 CS\QuantResults\am 13 worklist 3330.ba		
Analysis Time	4/25/2019 11:01 AM	Analyst Name	datastor
Report Time	4/25/2019 11:04 AM	Reporter Name	datastor
Last Calib Update	4/25/2019 11:01 AM	Batch State	Processed

Analysis Info

Acq Time	2019-04-24 21:11	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 POI
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	6.436	593909	172039	3.4522	372.7190
Oxazepam	Nordiazepam-D5 ISTD	7.388	674582	176861	3.8142	383.3649
Clonazepam	Clonazepam-D4 ISTD	7.629	319702	172039	1.8583	294.1047
Alprazolam	alphahydroxyalprazolam-D5 ISTD	7.664	265914	24629	10.7970	163.7823
Lorazepam	Nordiazepam-D5 ISTD	7.789	80368	176861	0.4544	303.7562
Flunitrazepam	Clonazepam-D4 ISTD	8.160	835729	172039	4.8578	318.9131
Diazepam	Diazepam-D5 ISTD	8.164	1117734	283663	3.9404	273.3182
Temazepam	Temazepam-D5 ISTD	8.555	1870920	627598	2.9811	304.6643

ISP FORENSICS

Pocatello

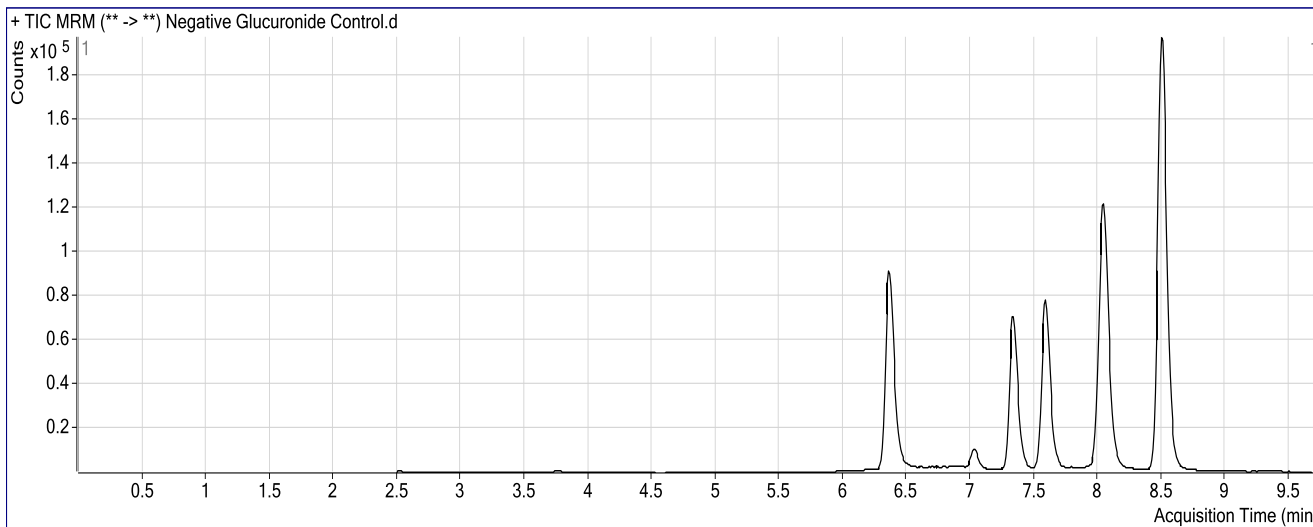
Benzodiazepine Analysis Report

Batch Data Path	C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3330 Urine 042419 CS\QuantResults\am 13 worklist 3330.ba		
Analysis Time	4/25/2019 11:01 AM	Analyst Name	datastor
Report Time	4/25/2019 11:03 AM	Reporter Name	datastor
Last Calib Update	4/25/2019 11:01 AM	Batch State	Processed

Analysis Info

Acq Time	2019-04-24 20:55	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 3330
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	7.379	6036	216994	0.0278	3.6738

ISP FORENSICS

Pocatello

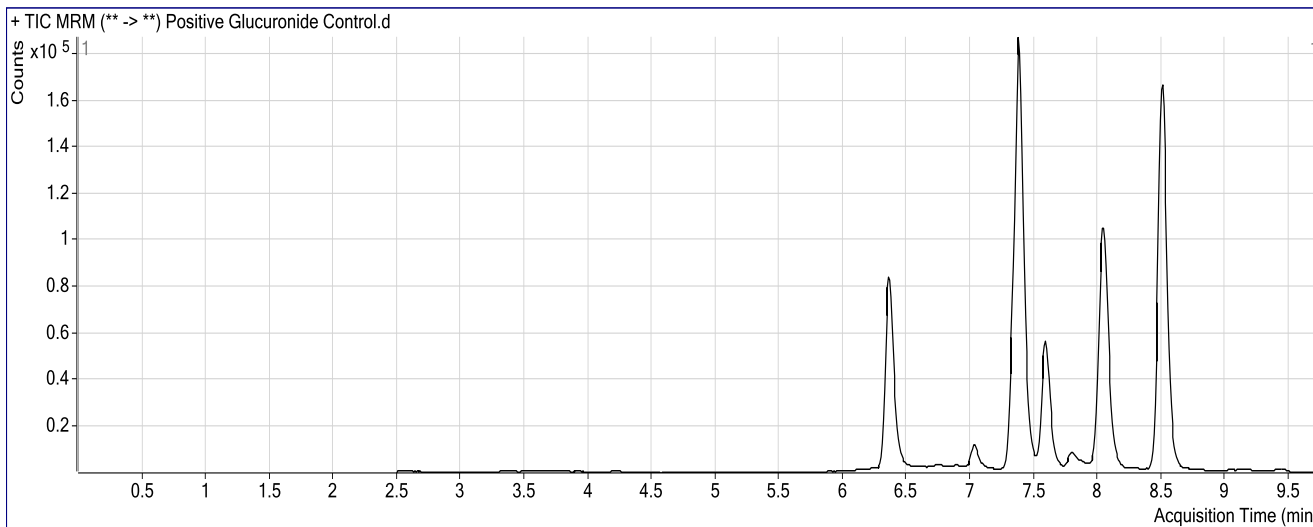
Benzodiazepine Analysis Report

Batch Data Path	C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3330 Urine 042419 CS\QuantResults\am 13 worklist 3330.ba		
Analysis Time	4/25/2019 11:01 AM	Analyst Name	datastor
Report Time	4/25/2019 11:03 AM	Reporter Name	datastor
Last Calib Update	4/25/2019 11:01 AM	Batch State	Processed

Analysis Info

Acq Time	2019-04-24 20:40	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 3330
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	7.379	462427	188203	2.4571	250.5650

CS

ISP FORENSICS

Pocatello

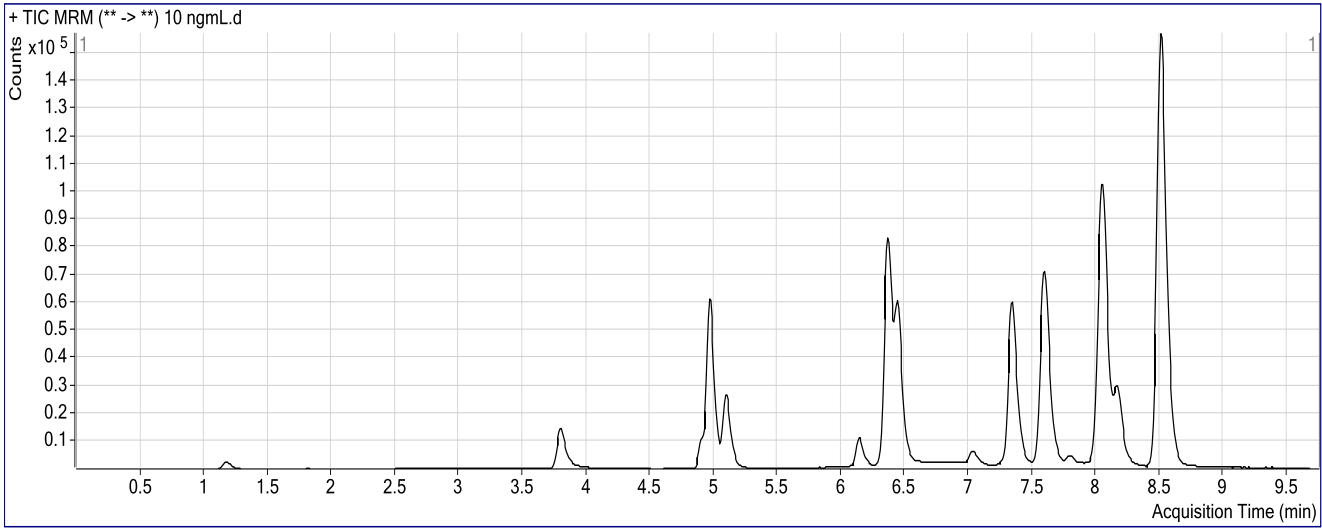
Benzodiazepine Analysis Report

Batch Data Path	C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3330 Urine 042419 CS\QuantResults\am 13 worklist 3330.ba		
Analysis Time	4/25/2019 11:01 AM	Analyst Name	datastor
Report Time	4/25/2019 11:03 AM	Reporter Name	datastor
Last Calib Update	4/25/2019 11:01 AM	Batch State	Processed

Analysis Info

Acq Time	2019-04-24 18:35	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 3330
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	Clonazepam-D4 ISTD	1.168	11001	251700	0.0437	10.7055
zopiclone	Nordiazepam-D5 ISTD	3.792	40340	192772	0.2093	9.9396
Chlordiazepoxide	Nordiazepam-D5 ISTD	4.911	33688	192772	0.1748	9.9151
zolpidem	Nordiazepam-D5 ISTD	4.967	185796	192772	0.9638	10.0337
quetiapine	Temazepam-D5 ISTD	5.098	69519	585986	0.1186	10.4610
Midazolam	Clonazepam-D4 ISTD	6.138	33285	251700	0.1322	9.9375
Nitrazepam	Clonazepam-D4 ISTD	6.444	35325	251700	0.1403	0.1436
Flurazepam	Diazepam-D5 ISTD	6.446	90523	280601	0.3226	9.8829
Nordiazepam	Nordiazepam-D5 ISTD	6.462	26408	192772	0.1370	0.0000
alpha-Hydroxyalprazolam	alphanhydroxyalprazolam-D5 ISTD	7.079	569	16648	0.0342	33.2673
alpha-hydroxytriazolam	Nordiazepam-D5 ISTD	7.272	2952	192772	0.0153	10.9985
Oxazepam	Nordiazepam-D5 ISTD	7.396	17199	192772	0.0892	10.0711
Clonazepam	Clonazepam-D4 ISTD	7.629	15454	251700	0.0614	8.9011
Alprazolam	alphanhydroxyalprazolam-D5 ISTD	7.673	7881	16648	0.4734	10.0789
Lorazepam	Nordiazepam-D5 ISTD	7.806	2428	192772	0.0126	10.3278
Flunitrazepam	Clonazepam-D4 ISTD	8.169	42707	251700	0.1697	9.3247
Diazepam	Diazepam-D5 ISTD	8.172	50727	280601	0.1808	2.0782
Temazepam	Temazepam-D5 ISTD	8.572	51283	585986	0.0875	9.9543

ISP FORENSICS

Pocatello

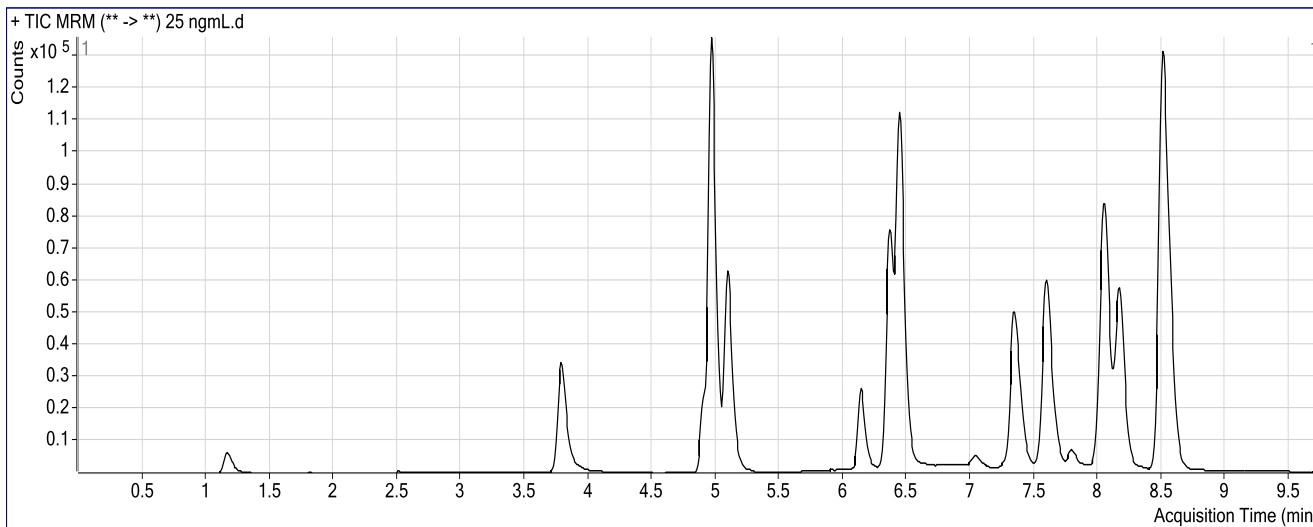
Benzodiazepine Analysis Report

Batch Data Path	C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3330 Urine 042419 CS\QuantResults\am 13 worklist 3330.ba		
Analysis Time	4/25/2019 11:01 AM	Analyst Name	datastor
Report Time	4/25/2019 11:03 AM	Reporter Name	datastor
Last Calib Update	4/25/2019 11:01 AM	Batch State	Processed

Analysis Info

Acq Time	2019-04-24 18:51	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 3330
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	Clonazepam-D4 ISTD	1.168	25206	200743	0.1256	24.1569
zopiclone	Nordiazepam-D5 ISTD	3.784	94326	169792	0.5555	24.4184
Chlordiazepoxide	Nordiazepam-D5 ISTD	4.911	69221	169792	0.4077	23.9697
zolpidem	Nordiazepam-D5 ISTD	4.967	407101	169792	2.3976	23.5827
quetiapine	Temazepam-D5 ISTD	5.090	164218	483658	0.3395	24.3356
Midazolam	Clonazepam-D4 ISTD	6.138	81890	200743	0.4079	24.5495
Nitrazepam	Clonazepam-D4 ISTD	6.436	69392	200743	0.3457	22.8006
Flurazepam	Diazepam-D5 ISTD	6.437	212472	225538	0.9421	25.1814
Nordiazepam	Nordiazepam-D5 ISTD	6.462	59892	169792	0.3527	0.0000
alpha-Hydroxyalprazolam	alphanhydroxyalprazolam-D5 ISTD	7.088	964	10651	0.0905	43.1673
alpha-hydroxytriazolam	Nordiazepam-D5 ISTD	7.272	5501	169792	0.0324	22.5206
Oxazepam	Nordiazepam-D5 ISTD	7.388	38100	169792	0.2244	24.1235
Clonazepam	Clonazepam-D4 ISTD	7.629	31668	200743	0.1578	24.0830
Alprazolam	alphanhydroxyalprazolam-D5 ISTD	7.664	17280	10651	1.6223	27.1847
Lorazepam	Nordiazepam-D5 ISTD	7.797	4977	169792	0.0293	21.7837
Flunitrazepam	Clonazepam-D4 ISTD	8.169	92247	200743	0.4595	27.9135
Diazepam	Diazepam-D5 ISTD	8.172	106760	225538	0.4734	23.1867
Temazepam	Temazepam-D5 ISTD	8.564	114732	483658	0.2372	25.1508

CS

ISP FORENSICS

Pocatello

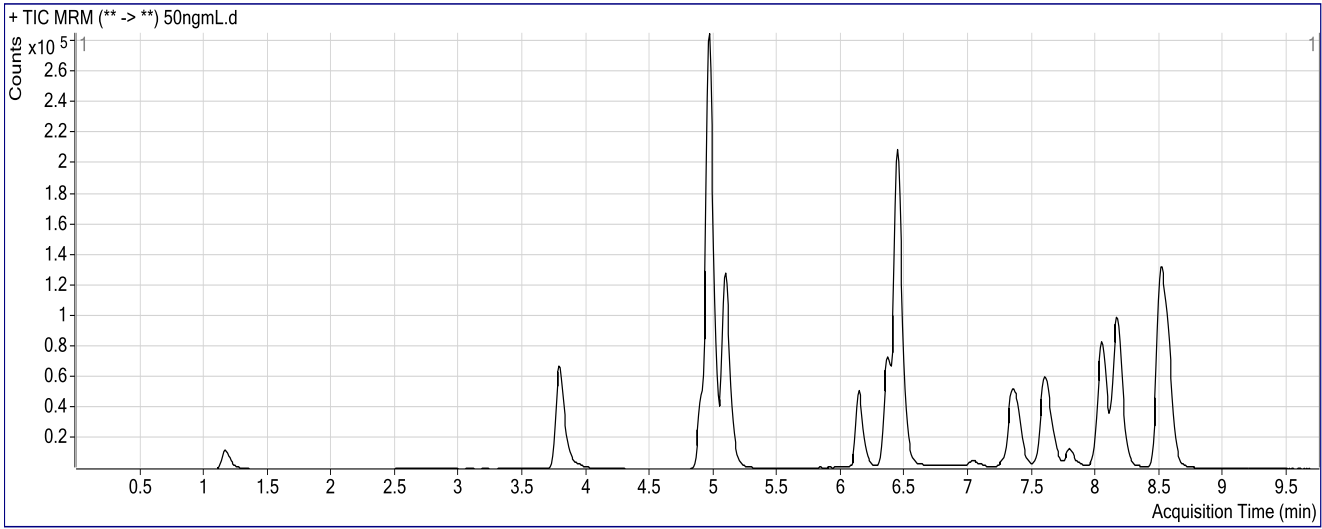
Benzodiazepine Analysis Report

Batch Data Path	C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3330 Urine 042419 CS\QuantResults\am 13 worklist 3330.ba		
Analysis Time	4/25/2019 11:01 AM	Analyst Name	datastor
Report Time	4/25/2019 11:03 AM	Reporter Name	datastor
Last Calib Update	4/25/2019 11:01 AM	Batch State	Processed

Analysis Info

Acq Time	2019-04-24 19:06	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 3330
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	Clonazepam-D4 ISTD	1.168	49881	183083	0.2725	48.3364
zopiclone	Nordiazepam-D5 ISTD	3.784	187497	159424	1.1761	50.3654
Chlordiazepoxide	Nordiazepam-D5 ISTD	4.902	144465	159424	0.9062	53.9992
zolpidem	Nordiazepam-D5 ISTD	4.967	862957	159424	5.4130	52.0444
quetiapine	Temazepam-D5 ISTD	5.090	335844	470312	0.7141	47.9828
Midazolam	Clonazepam-D4 ISTD	6.138	165084	183083	0.9017	50.7592
Nitrazepam	Clonazepam-D4 ISTD	6.436	120440	183083	0.6578	57.3543
Flurazepam	Diazepam-D5 ISTD	6.437	443175	225231	1.9676	50.6369
Nordiazepam	Nordiazepam-D5 ISTD	6.462	103090	159424	0.6466	28.7931
alpha-Hydroxyalprazolam	alphanhydroxyalprazolam-D5 ISTD	7.079	2347	12254	0.1915	60.8887
alpha-hydroxytriazolam	Nordiazepam-D5 ISTD	7.272	10915	159424	0.0685	46.6515
Oxazepam	Nordiazepam-D5 ISTD	7.388	76126	159424	0.4775	50.3276
Clonazepam	Clonazepam-D4 ISTD	7.638	66077	183083	0.3609	56.1354
Alprazolam	alphanhydroxyalprazolam-D5 ISTD	7.673	31750	12254	2.5909	41.6062
Lorazepam	Nordiazepam-D5 ISTD	7.789	11869	159424	0.0744	52.5707
Flunitrazepam	Clonazepam-D4 ISTD	8.160	161008	183083	0.8794	54.9647
Diazepam	Diazepam-D5 ISTD	8.172	203219	225231	0.9023	54.1309
Temazepam	Temazepam-D5 ISTD	8.564	227599	470312	0.4839	50.2071

ISP FORENSICS

Pocatello

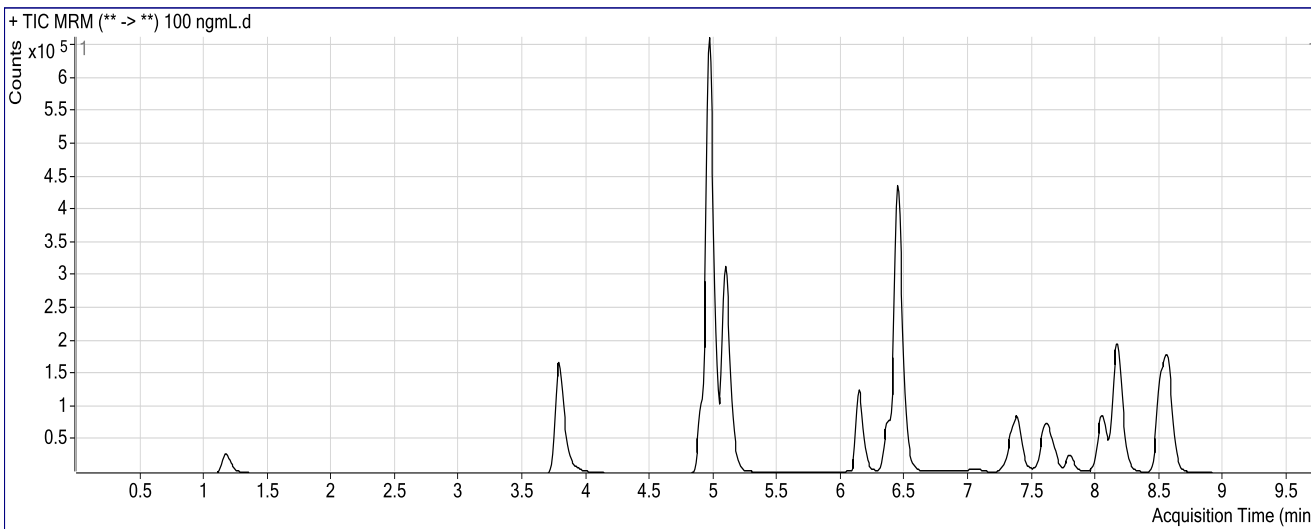
Benzodiazepine Analysis Report

Batch Data Path	C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3330 Urine 042419 CS\QuantResults\am 13 worklist 3330.ba		
Analysis Time	4/25/2019 11:01 AM	Analyst Name	datastor
Report Time	4/25/2019 11:03 AM	Reporter Name	datastor
Last Calib Update	4/25/2019 11:01 AM	Batch State	Processed

Analysis Info

Acq Time	2019-04-24 19:22	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 3330
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	Clonazepam-D4 ISTD	1.168	118901	199750	0.5953	101.6623
zopiclone	Nordiazepam-D5 ISTD	3.784	475279	172687	2.7523	116.2699
Chlordiazepoxide	Nordiazepam-D5 ISTD	4.902	322112	172687	1.8653	111.5929
zolpidem	Nordiazepam-D5 ISTD	4.967	2057182	172687	11.9128	113.2536
quetiapine	Temazepam-D5 ISTD	5.090	839635	520012	1.6146	105.4802
Midazolam	Clonazepam-D4 ISTD	6.138	412692	199750	2.0660	112.7742
Nitrazepam	Clonazepam-D4 ISTD	6.436	223798	199750	1.1204	108.7965
Flurazepam	Diazepam-D5 ISTD	6.437	1043877	244149	4.2756	108.5169
Nordiazepam	Nordiazepam-D5 ISTD	6.462	210687	172687	1.2201	108.3876
alpha-Hydroxyalprazolam	alphanhydroxyalprazolam-D5 ISTD	7.079	6152	15762	0.3903	95.7448
alpha-hydroxytriazolam	Nordiazepam-D5 ISTD	7.272	27244	172687	0.1578	105.3379
Oxazepam	Nordiazepam-D5 ISTD	7.388	176755	172687	1.0236	106.3802
Clonazepam	Clonazepam-D4 ISTD	7.629	134658	199750	0.6741	105.6598
Alprazolam	alphanhydroxyalprazolam-D5 ISTD	7.673	87429	15762	5.5467	85.6132
Lorazepam	Nordiazepam-D5 ISTD	7.789	27349	172687	0.1584	109.2560
Flunitrazepam	Clonazepam-D4 ISTD	8.160	331044	199750	1.6573	105.4676
Diazepam	Diazepam-D5 ISTD	8.172	426698	244149	1.7477	115.1256
Temazepam	Temazepam-D5 ISTD	8.564	517626	520012	0.9954	102.2006

ISP FORENSICS

Pocatello

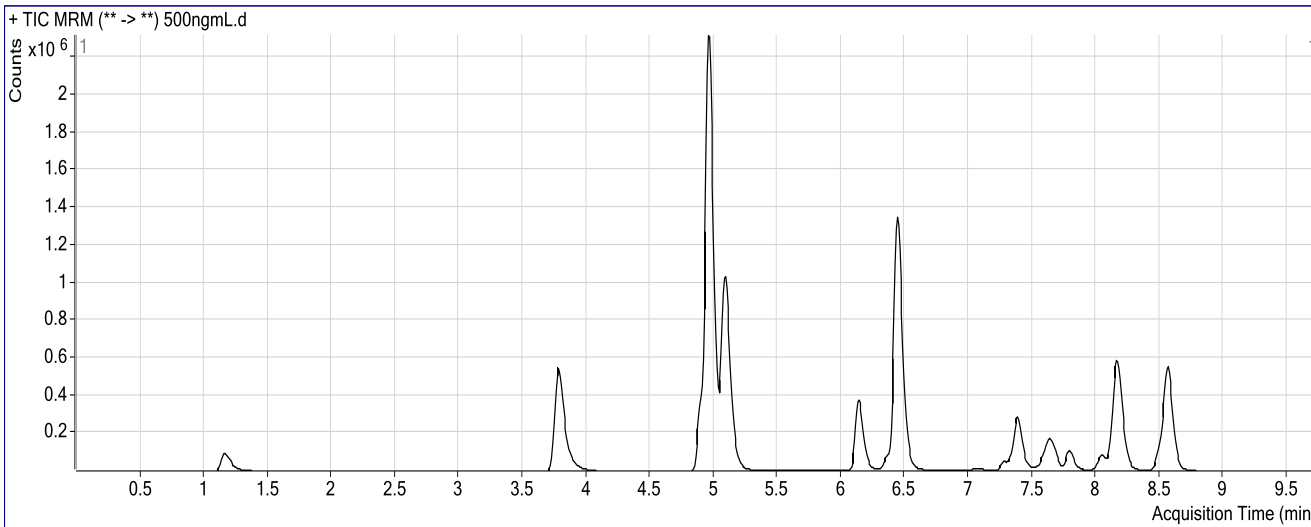
Benzodiazepine Analysis Report

Batch Data Path	C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3330 Urine 042419 CS\QuantResults\am 13 worklist 3330.ba		
Analysis Time	4/25/2019 11:01 AM	Analyst Name	datastor
Report Time	4/25/2019 11:03 AM	Reporter Name	datastor
Last Calib Update	4/25/2019 11:01 AM	Batch State	Processed

Analysis Info

Acq Time	2019-04-24 19:37	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 3330
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	Clonazepam-D4 ISTD	1.160	444637	158398	2.8071	474.3749
zopiclone	Nordiazepam-D5 ISTD	3.775	1672733	152601	10.9615	459.5202
Chlordiazepoxide	Nordiazepam-D5 ISTD	4.902	1164430	152601	7.6305	452.7998
zolpidem	Nordiazepam-D5 ISTD	4.967	7545875	152601	49.4483	462.9860
quetiapine	Temazepam-D5 ISTD	5.090	2985279	435890	6.8487	459.9692
Midazolam	Clonazepam-D4 ISTD	6.138	1327146	158398	8.3785	454.2454
Nitrazepam	Clonazepam-D4 ISTD	6.436	639226	158398	4.0356	439.9990
Flurazepam	Diazepam-D5 ISTD	6.437	3690215	217461	16.9696	443.2610
Nordiazepam	Nordiazepam-D5 ISTD	6.462	586038	152601	3.8403	472.1006
alpha-Hydroxyalprazolam	alphanhydroxyalprazolam-D5 ISTD	7.079	28215	9491	2.9729	543.5809
alpha-hydroxytriazolam	Nordiazepam-D5 ISTD	7.272	128191	152601	0.8400	513.0075
Oxazepam	Nordiazepam-D5 ISTD	7.388	741785	152601	4.8609	483.5069
Clonazepam	Clonazepam-D4 ISTD	7.629	473577	158398	2.9898	475.9883
Alprazolam	alphanhydroxyalprazolam-D5 ISTD	7.673	364686	9491	38.4254	575.1278
Lorazepam	Nordiazepam-D5 ISTD	7.789	112078	152601	0.7345	480.6175
Flunitrazepam	Clonazepam-D4 ISTD	8.160	981484	158398	6.1963	411.0835
Diazepam	Diazepam-D5 ISTD	8.172	1385894	217461	6.3731	448.8293
Temazepam	Temazepam-D5 ISTD	8.564	2000993	435890	4.5906	469.4987

ISP FORENSICS

Pocatello

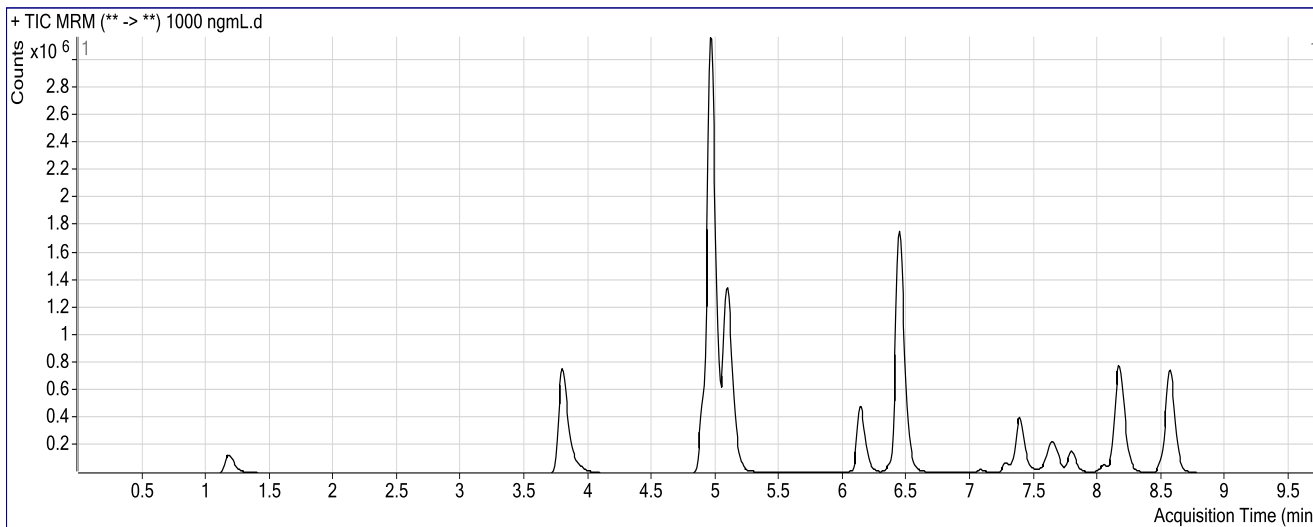
Benzodiazepine Analysis Report

Batch Data Path	C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3330 Urine 042419 CS\QuantResults\am 13 worklist 3330.ba		
Analysis Time	4/25/2019 11:01 AM	Analyst Name	datastor
Report Time	4/25/2019 11:03 AM	Reporter Name	datastor
Last Calib Update	4/25/2019 11:01 AM	Batch State	Processed

Analysis Info

Acq Time	2019-04-24 19:53	Data File	1000 ngmL.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 3330
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	Clonazepam-D4 ISTD	1.176	607368	101521	5.9827	1034.0230
zopiclone	Nordiazepam-D5 ISTD	3.792	2307889	105702	21.8338	914.1249
Chlordiazepoxide	Nordiazepam-D5 ISTD	4.902	1654997	105702	15.6571	914.4600
zolpidem	Nordiazepam-D5 ISTD	4.967	10570048	105702	99.9981	924.3409
quetiapine	Temazepam-D5 ISTD	5.090	4054051	281651	14.3939	1054.1508
Midazolam	Clonazepam-D4 ISTD	6.138	1725076	101521	16.9922	935.5565
Nitrazepam	Clonazepam-D4 ISTD	6.436	821435	101521	8.0912	922.9432
Flurazepam	Diazepam-D5 ISTD	6.437	4969544	140617	35.3409	991.1582
Nordiazepam	Nordiazepam-D5 ISTD	6.462	768429	105702	7.2697	948.1288
alpha-Hydroxyalprazolam	alphanhydroxyalprazolam-D5 ISTD	7.079	44587	8292	5.3770	952.5426
alpha-hydroxytriazolam	Nordiazepam-D5 ISTD	7.272	186725	105702	1.7665	985.6027
Oxazepam	Nordiazepam-D5 ISTD	7.388	1100907	105702	10.4152	985.8974
Clonazepam	Clonazepam-D4 ISTD	7.629	637763	101521	6.2821	1015.9080
Alprazolam	alphanhydroxyalprazolam-D5 ISTD	7.673	632355	8292	76.2593	1138.4195
Lorazepam	Nordiazepam-D5 ISTD	7.789	168262	105702	1.5918	986.1305
Flunitrazepam	Clonazepam-D4 ISTD	8.160	1288171	101521	12.6887	886.9229
Diazepam	Diazepam-D5 ISTD	8.172	1855426	140617	13.1949	940.9978
Temazepam	Temazepam-D5 ISTD	8.564	2837733	281651	10.0754	1036.1878

ISP FORENSICS

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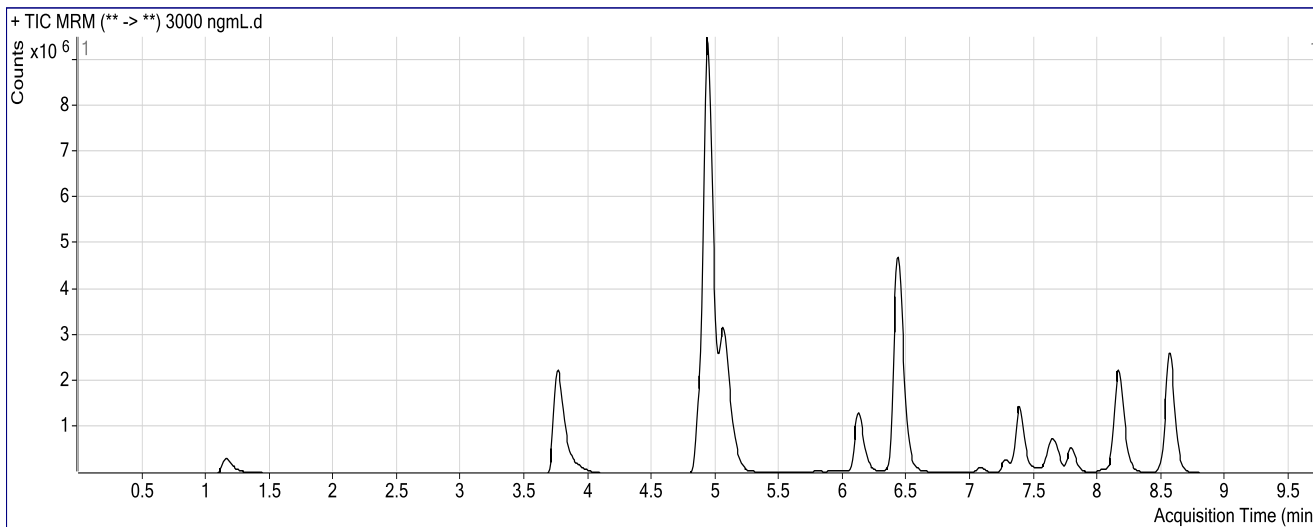
Benzodiazepine Analysis Report

Batch Data Path	C:\MassHunter\Data\2019\AM 13\AM 13 Worklist 3330 Urine 042419 CS\QuantResults\am 13 worklist 3330.ba		
Analysis Time	4/25/2019 11:01 AM	Analyst Name	datastor
Report Time	4/25/2019 11:03 AM	Reporter Name	datastor
Last Calib Update	4/25/2019 11:01 AM	Batch State	Processed

Analysis Info

Acq Time	2019-04-24 20:09	Data File	3000 ngmL.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 3330
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	Clonazepam-D4 ISTD	1.160	1578654	100458	15.7145	2991.4190
zopiclone	Nordiazepam-D5 ISTD	3.758	7699986	104628	73.5943	3078.3790
Chlordiazepoxide	Nordiazepam-D5 ISTD	4.877	5988931	104628	57.2405	3102.7451
zolpidem	Nordiazepam-D5 ISTD	4.934	36924418	104628	352.9131	3089.2179
quetiapine	Temazepam-D5 ISTD	5.063	10187377	361013	28.2189	2960.9979
Midazolam	Clonazepam-D4 ISTD	6.121	5212588	100458	51.8881	3118.3734
Nitrazepam	Clonazepam-D4 ISTD	6.436	2402224	100458	23.9127	3169.0975
Flurazepam	Diazepam-D5 ISTD	6.420	15172762	191825	79.0970	3198.0253
Nordiazepam	Nordiazepam-D5 ISTD	6.462	2361036	104628	22.5661	3071.3830
alpha-Hydroxyalprazolam	alphanhydroxyalprazolam-D5 ISTD	7.071	256672	14164	18.1209	3008.1147
alpha-hydroxytriazolam	Nordiazepam-D5 ISTD	7.272	769432	104628	7.3540	3001.7792
Oxazepam	Nordiazepam-D5 ISTD	7.388	3979466	104628	38.0346	3017.9165
Clonazepam	Clonazepam-D4 ISTD	7.629	1759770	100458	17.5174	2998.3350
Alprazolam	alphanhydroxyalprazolam-D5 ISTD	7.664	2667644	14164	188.3341	2807.0487
Lorazepam	Nordiazepam-D5 ISTD	7.789	616073	104628	5.8883	3017.4438
Flunitrazepam	Clonazepam-D4 ISTD	8.160	3573669	100458	35.5737	3440.9415
Diazepam	Diazepam-D5 ISTD	8.164	5590627	191825	29.1444	2091.7002
Temazepam	Temazepam-D5 ISTD	8.564	10261388	361013	28.4239	2991.7426