

*BWyle*

*TS*

**Worklist: 3132**

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>
P2019-0799	1	145917	AM 28 Blood Multi-Drug Quant Panel 2 by LC-QC
P2019-0802	1	145918	AM 28 Blood Multi-Drug Quant Panel 2 by LC-QC



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

TS

Extraction Date: 03/25/19  
Plate lot#: IDP-112-19024

Analyst: Tamara Salazar  
Plate Expiration: 07/24/19

**Mobile phase A:** 5mM Amm Form + 0.01% FA  
0.5M Ammonium Hydroxide

**Mobile phase B:** 0.01% Formic Acid in MeOH  
Ethyl Acetate 20% Methanol in Water

**Blank Blood Lot:** 445283-1  
**LCMS-QQQ ID:** 069910

**Column:** ~~Agilent 120 EC-C18 (2.1x 100-4um)~~

Agilent 120 EC-C18 (2.1 x 100-2.7um) 09/16/19 TS

## Pre-Analytic:

- 1. Check levels of mobile phases and needle wash refill as needed. Ensure waste is not full.
- 2. Ensure correct column is installed and begin mobile phase flow allow to equilibrate ~ 30 minutes.
- 3. Create worklist.

## Analytic:

- 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- 2. Pipette **250µL blood (calibrated pipette) Pipette ID: 16** in wells of analytical (standards) plate.
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. *Shaker ID: 067105*
- 4. Pipette **250µL 00.5M ammonium hydroxide** in wells of analytical plate.
- 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 6. Transfer **300µL of blood+base** mixture to corresponding wells of SLE+ plate.
- 7. Apply positive pressure for approx. 10-15 seconds (or until no liquid remains on top of sorbent).  
*(Load at 85-100 PSI- Selector to the right) Manifold ID: 067104*
- 8. Wait 5 minutes.
- 9. Add **900uL ethyl acetate**.
- 10. Wait 5 minutes.
- 11. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left)*.
- 12. Add **900uL ethyl acetate**.
- 13. Wait 5 minutes.
- 14. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left)*.
- 15. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C.  
*SPE Dry ID: 067103*
- 16. Reconstitute in **100µL 20% MeOH** and heat seal plate with foil. Place in autosampler and run worklist.

## Post-Analytic

- 1. Create batch and process data.  
Worklist path: *G:\TOX\Pocatello\Falco\2019\AM 28\032519 MDQ P2 wklst 3132*  
Batch Name: *MDQ P2 TS*
- 2. Make necessary changes to integration limits
- 3. Integration linear and R<sup>2</sup> values ≥0.98 for each analyte.
- 4. For unknown samples and controls: response ratio within 20% of average of controls and standards, RT within +/- 5% (tramadol RT +/-2%), S/N for primary transition >10 and secondary transitions >5.
- 5. Did all QCs pass for each analyte? Y / N \_\_\_\_\_ Add Control data to QC tracking spreadsheet.
- 6. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports.

## COMMENTS:

*Compounds evaluated: 7-aminoflunitrazepam, acetyl fentanyl, etizolam, flurazepam, midazolam, phenytoin*  
*Curves limited: 7-aminoflunitrazepam: 5-250, Etizolam: 5-100, Flurazepam: 5-100 (cal 3-25ng dropped due to peak appearing to have cut-off), Phenytoin: 5-250*



# Idaho State Police Forensic Services

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## AM #28 Blood Multi-Drug Confirmatory Analysis by LCMS-QQQ---Panel 2

### Methanol External Control Solution (Lot: 020419)

*100 ul each 1 mg/mL stock solution in 9600 ul MeOH*

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>	<i>Expiration Date</i>
Methanol (LCMS)	Fisher	184782	
Midazolam	Cerilliant	FE01161704	04/30/2022
Etizolam	Cerilliant	FN06061606	11/30/2020
7-Aminoflunitrazepam	Cerilliant	FN01271505	02/28/2020
Flurazepam	Cerilliant	FE02101501	04/30/2020
Prepared:	02/04/19		
Prepared By:	Tamara Salazar		
Expires:	02/04/2020		

### Blood External Control Solution (Lot: WS020419)

*50 ul of methanol external control solution was added to 9950 ul of blood.*

*Approximately 50ng/mL of each compound.*

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
Negative Blood	Hemostat	445283-1
Methanol External Control Solution	-	020419
Prepared:	02/04/19	
Prepared by:	Tamara Salazar	
Expires:	02/04/2020	

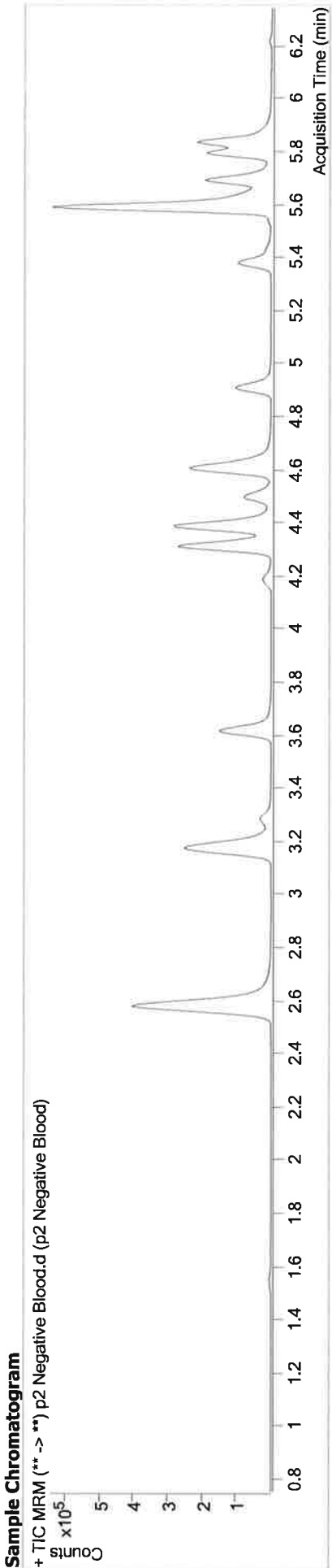
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# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2019\AM 28\032519 MDQ P2 wkst 3132\QuantResults\MDQ P2 TS.batch.bin  
**Calibration Last Update** 3/26/2019 9:23:03 AM

<b>Instrument Type</b>	FALCO-LCMS (Property ID 069901)	<b>Data File</b>	p2 Negative Blood.d
<b>Acq. Method</b>	MDQ P2 Combined 111418.m	<b>Sample Operator</b>	p2 Negative Blood
<b>Sample Position</b>	P2-D8	<b>Comment</b>	Tamara Salazar
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	3/25/2019 3:45:05 PM		



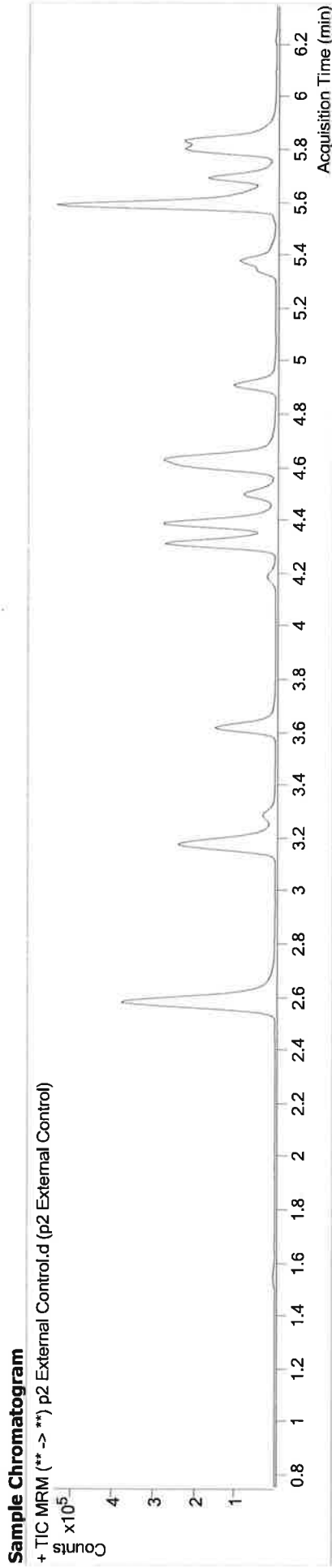
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# AM #28 Multi-Drug Quant. Results

**Batch results** Calibration Last Update D:\MassHunter\Data\2019\AM 28\032519 MDQ P2 wk1st 3132\QuantResults\MDQ P2 TS.batch.bin  
 3/26/2019 9:23:03 AM

**Instrument Type** FALCO-LCMS (Property ID 069901) **Data File** p2 External Control.d  
**Acq. Method** MDQ P2 Combined 111418.m **Sample Operator** p2 External Control  
**Sample Position** P2-C8 **Comment** Tamara Salazar  
**Injection Volume** 10  
**Acq. Date-Time** 3/25/2019 4:06:14 PM



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoflunitrazepam	4.635	377201	1731.44	25.1	71694.20	436891	48.4045 ng/ml
Ethizolam	5.816	147283	11587.00	25.5	4073.28	345777	42.1381 ng/ml
Flurazepam	5.345	97454	22613.66	13.4	1559.67	13257	126.8843 ng/ml
Midazolam	5.810	46918	4957.56	90.7	3358.45	162302	48.4639 ng/ml

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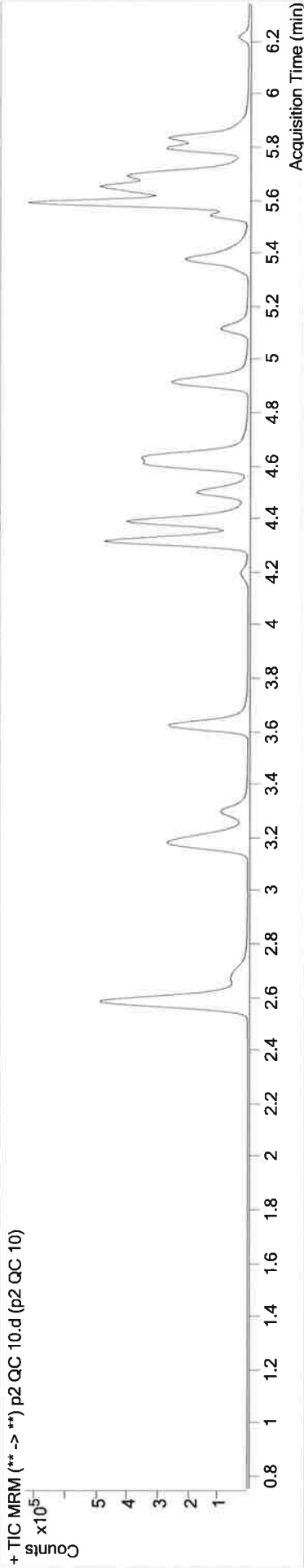


# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2019\AM 28\032519 MDQ P2 wk1st 3132\QuantResults\MDQ P2 TS.batch.bin  
**Calibration Last Update** 3/26/2019 9:23:03 AM

**Instrument Type** FALCO-LCMS (Property ID 069901)  
**Acq. Method** QC  
**Sample Position** MDQ P2 Combined 111418.m  
**Injection Volume** P2-H8  
**Acq. Date-Time** 10  
**Sample Info.** 3/25/2019 2:09:52 PM  
**Data File** p2 QC 10.d  
**Sample Operator** p2 QC 10  
**Comment** Tamara Salazar

**Sample Chromatogram**



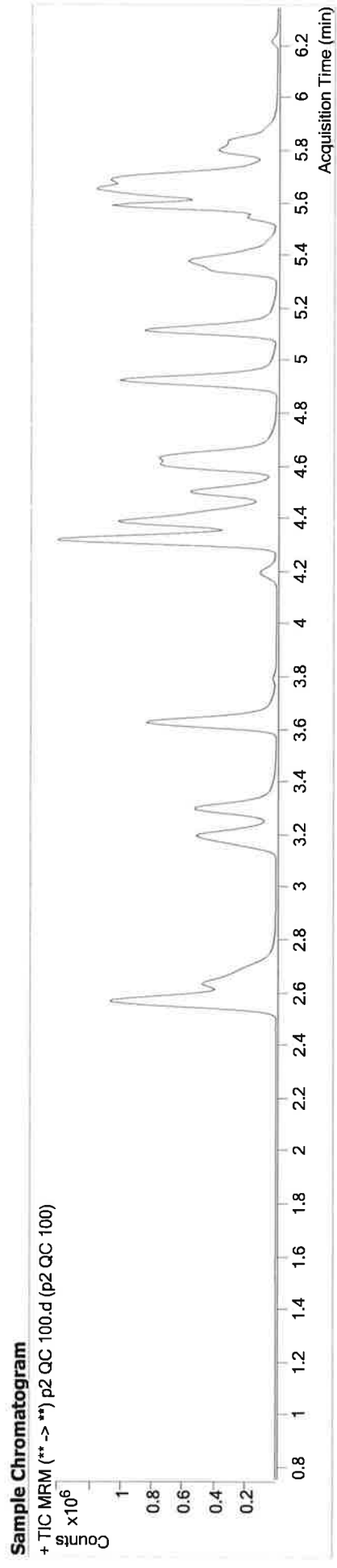
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoflunitrazepam	4.635	106344	12067.18	25.1	2692.50	522008	10.5971 ng/ml
acetyl-fentanyl	4.654	10312	3590.19	76.8	9360.09	518056	1.0504 ng/ml
Etizolam	5.816	37391	7690.23	25.3	∞	300202	8.8678 ng/ml
Flurazepam	5.345	84307	20175.25	13.6	48834.72	265615	8.7423 ng/ml
Midazolam	5.810	21174	4891.01	90.3	2628.59	302144	10.6109 ng/ml
Phenytoln	5.467	3323	369.87	75.0	206.33	17026	10.6676 ng/ml



# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2019\AM 28\032519 MDQ P2 wk1st 3132\QuantResults\MDQ P2 TS.batch.bin  
**Calibration Last Update** 3/26/2019 9:23:03 AM

**Instrument Type** FALCO-LCMS (Property ID 069901) **Data File** p2 QC 100.d  
**Acq. Method** QC **Sample Operator** p2 QC 100  
**Sample Position** MDQ P2 Combined 111418.m **Operator** Tamara Salazar  
**Injection Volume** P2-G8 **Comment**  
**Acq. Date-Time** 10  
**Sample Info.** 3/25/2019 2:31:01 PM



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoflunitrazepam	4.635	791324	14921.23	25.1	16639.58	453062	99.0264 ng/ml
acetyl-fentanyl	4.654	112183	26197.58	80.5	∞	548280	10.1210 ng/ml
Etizolam	5.816	190970	10984.30	25.7	4420.44	132487	154.2334 ng/ml
Flurazepam	5.345	853358	37419.56	13.8	7649.41	307143	50.0774 ng/ml
Midazolam	5.810	143752	5075.56	88.9	19860.90	227765	107.5868 ng/ml
Phenyletoin	5.467	22131	12487.63	78.9	1499.80	11511	102.8773 ng/ml

TS



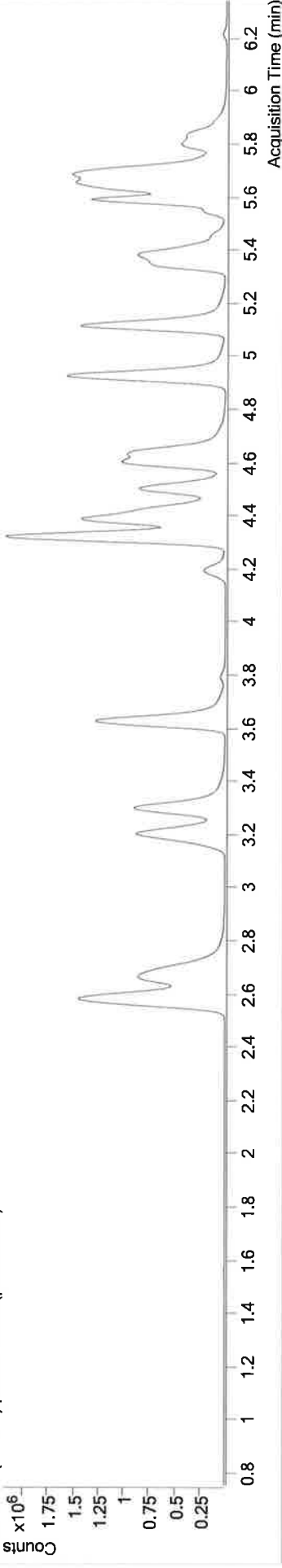
# AM #28 Multi-Drug Quant. Results

Batch results Calibration Last Update D:\MassHunter\Data\2019\AM 28\032519 MDQ P2 wk1st 3132\QuantResults\MDQ P2 TS.batch.bin 3/26/2019 9:23:03 AM

Instrument Type FALCO-LCMS (Property ID 069901) Data File Sample p2 QC 250.d  
QC p2 QC 250  
Acq. Method MDQ P2 Combined 111418.m Operator Tamara Salazar  
Sample Position P2-F8  
Injection Volume 10  
Acq. Date-Time 3/25/2019 2:52:11 PM  
Sample Info.

### Sample Chromatogram

+ TIC MRM (\*\* -> \*\*) p2 QC 250.d (p2 QC 250)



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoflunitrazepam	4.635	1420025	17948.49	25.1	160899.30	385418	210.0872 ng/ml
acetyl-fentanyl	4.654	208932	96426.46	83.3	586551.00	408468	25.1921 ng/ml
Etizolam	5.816	305175	22693.10	25.4	7862.46	84720	392.7501 ng/ml
Flurazepam	5.345	1518365	33848.55	13.8	126250.85	255175	103.3540 ng/ml
Midazolam	5.810	232188	3826.96	88.1	16797.49	158592	251.5516 ng/ml
Phenytoin	5.467	64575	46255.08	76.8	13446.80	11376	303.2502 ng/ml

\*Outside Curve Range. - TS



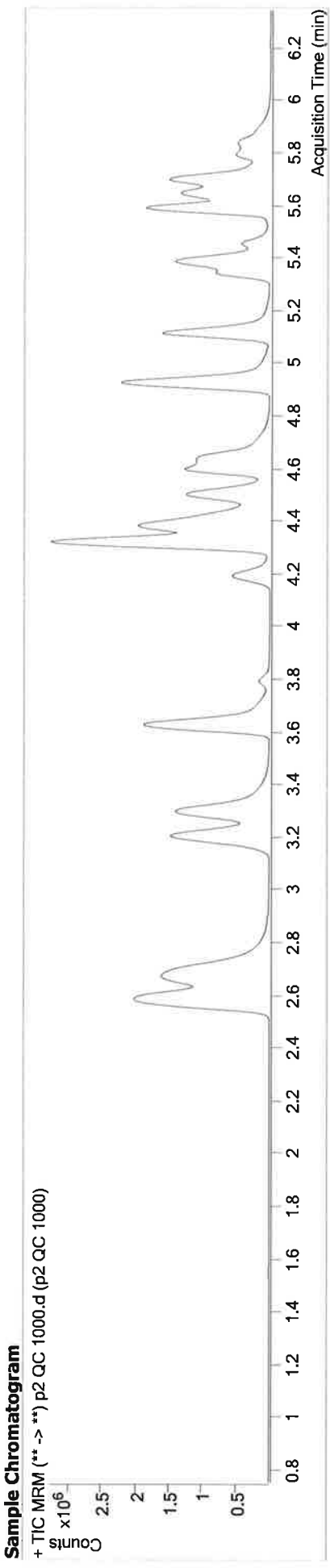
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# AM #28 Multi-Drug Quant. Results

Batch results Calibration Last Update D:\MassHunter\Data\2019\AM 28\032519 MDQ P2 wklist 3132\QuantResults\MDQ P2 TS.batch.bin 3/26/2019 9:23:03 AM

<b>Instrument</b>	FALCO-LCMS (Property ID 069901)	<b>Data File</b>	p2 QC 1000.d
<b>Type</b>	QC	<b>Sample</b>	p2 QC 1000
<b>Acq. Method</b>	MDQ P2 Combined 111418.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P2-E8	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	3/25/2019 3:13:22 PM		



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoflunitrazepam	4.641	2885975	∞	25.4	50133.30	298000	553.9765 ng/ml
acetyl-fentanyl	4.654	125670	68669.21	89.4	148681.94	62215	99.2704 ng/ml
Etizolam	5.822	550178	4473.75	25.6	19531.02	107094	562.2131 ng/ml
Flurazepam	5.345	1780157	326178.68	14.0	61469.64	22683	1321.5836 ng/ml
Midazolam	5.810	308776	5608.14	90.5	4267.37	66145	805.3624 ng/ml
Phenyletoin	5.467	322361	88066.57	74.8	24352.65	12780	1346.7116 ng/ml

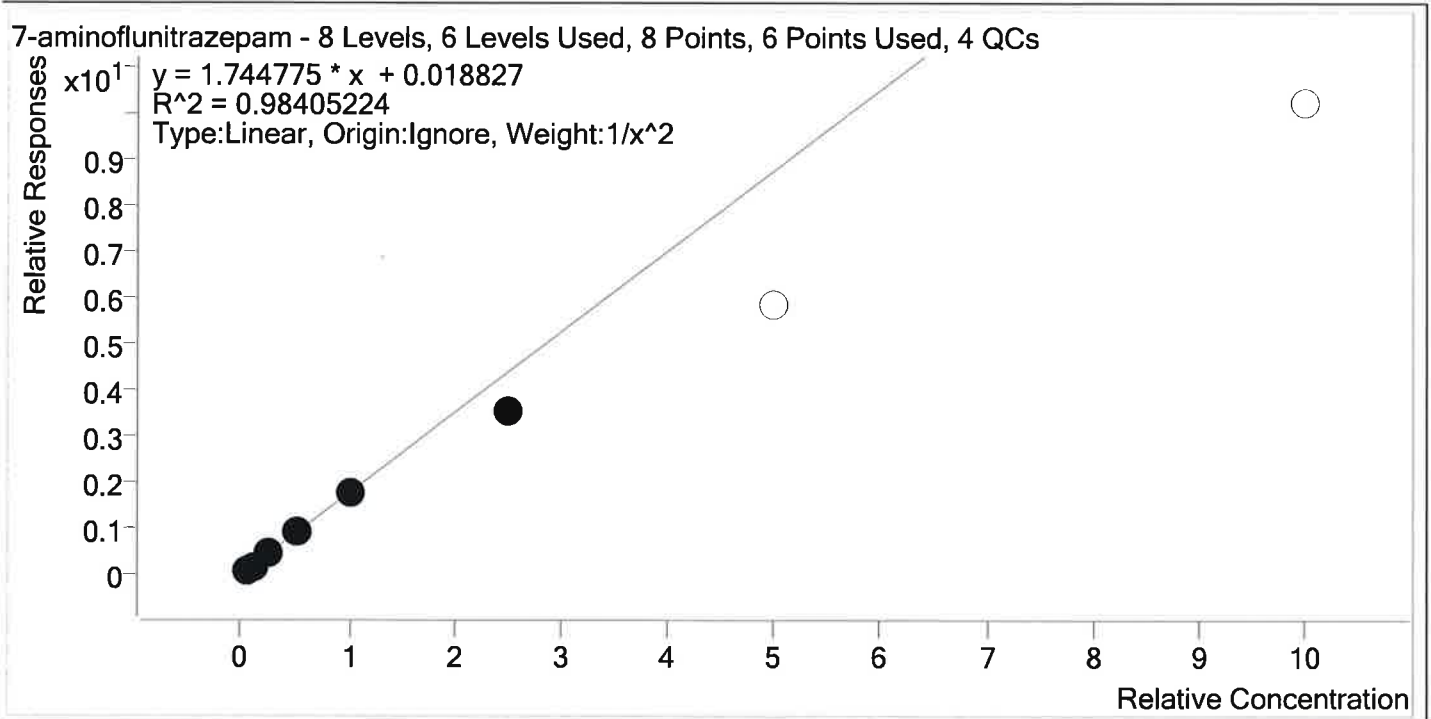
★ Outside curve range. - TS

TS



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\032519 MDQ P2 wk1st 3132\QuantResults\MDQ P2 TS.batch.bin  
**Last Cal. Update** 3/26/2019 9:23 AM  
**Analyst Name** ISP\Datastor  
**Analyte** 7-aminoflunitrazepam **Internal Standard** 7-aminoflunitrazepam-D7



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p2 Cal 1-5ng	1	✓	5.0	4.8	95.6
p2 Cal 2- 10ng	2	✓	10.0	10.4	104.0
p2 Cal 3 -25ng	3	✓	25.0	27.3	109.3
p2 Cal 4-50ng	4	✓	50.0	54.3	108.7
p2 Cal 5-100ng	5	✓	100.0	100.9	100.9
p2 Cal 6-250ng	6	✓	250.0	203.9	81.6
p2 Cal 7-500ng	7	×	500.0	332.3	66.5
p2 Cal 8-1000ng	8	×	1000.0	583.2	58.3

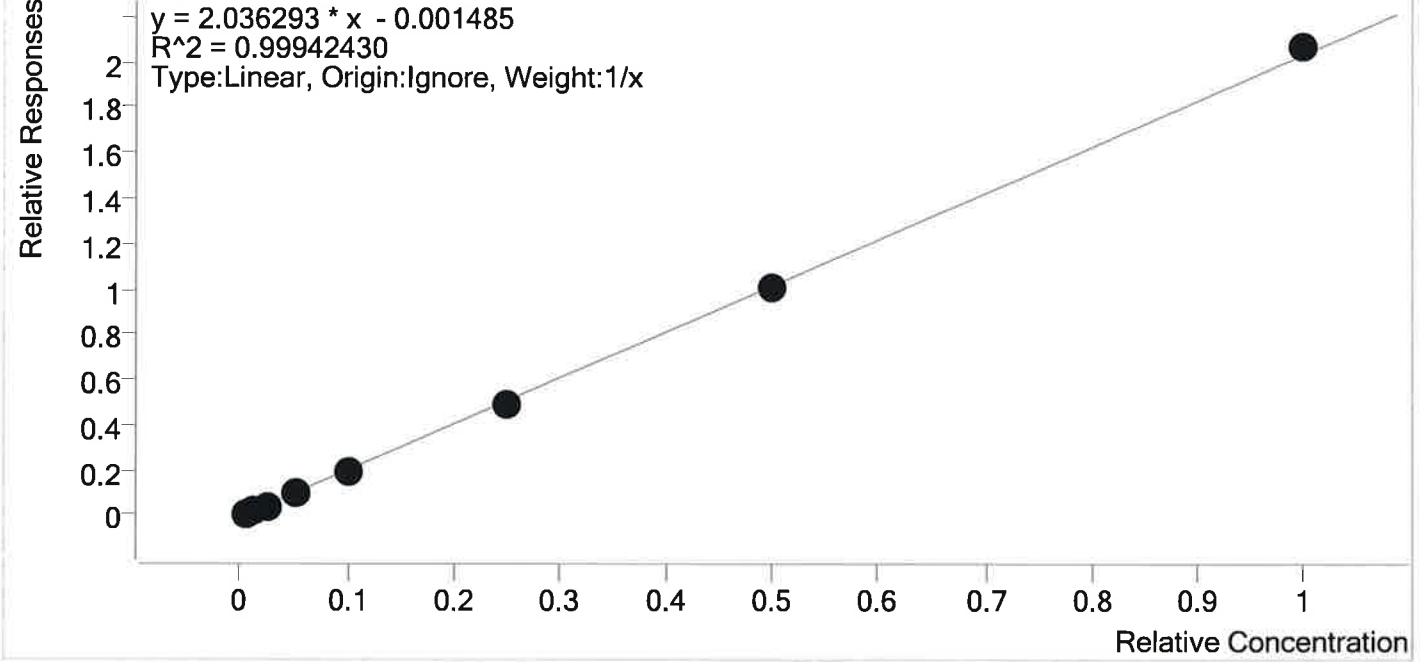
TS



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\032519 MDQ P2 wk1st 3132\QuantResults\MDQ P2 TS.batch.bin  
**Last Cal. Update** 3/26/2019 9:23 AM  
**Analyst Name** ISP\Datastor  
**Analyte** acetyl-fentanyl **Internal Standard** acetyl-fentanyl-d5

acetyl-fentanyl - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs

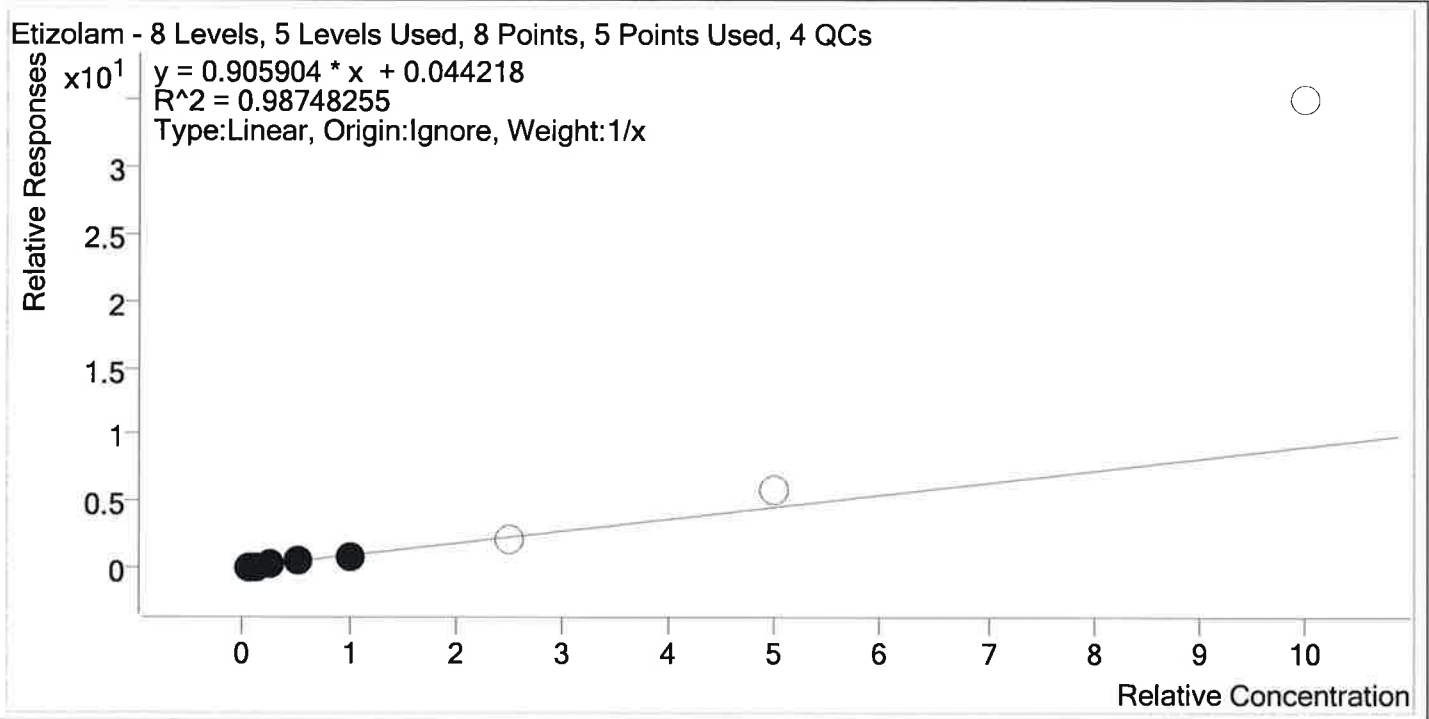


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p2 Cal 1-5ng	1	✓	0.5	0.6	112.6
p2 Cal 2- 10ng	2	✓	1.0	1.0	103.9
p2 Cal 3 -25ng	3	✓	2.5	2.3	93.7
p2 Cal 4-50ng	4	✓	5.0	4.8	96.1
p2 Cal 5-100ng	5	✓	10.0	9.6	95.6
p2 Cal 6-250ng	6	✓	25.0	24.2	96.9
p2 Cal 7-500ng	7	✓	50.0	49.8	99.5
p2 Cal 8-1000ng	8	✓	100.0	101.7	101.7



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\032519 MDQ P2 wk1st 3132\QuantResults\MDQ P2 TS.batch.bin  
**Last Cal. Update** 3/26/2019 9:23 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Etizolam **Internal Standard** Estazolam-D5



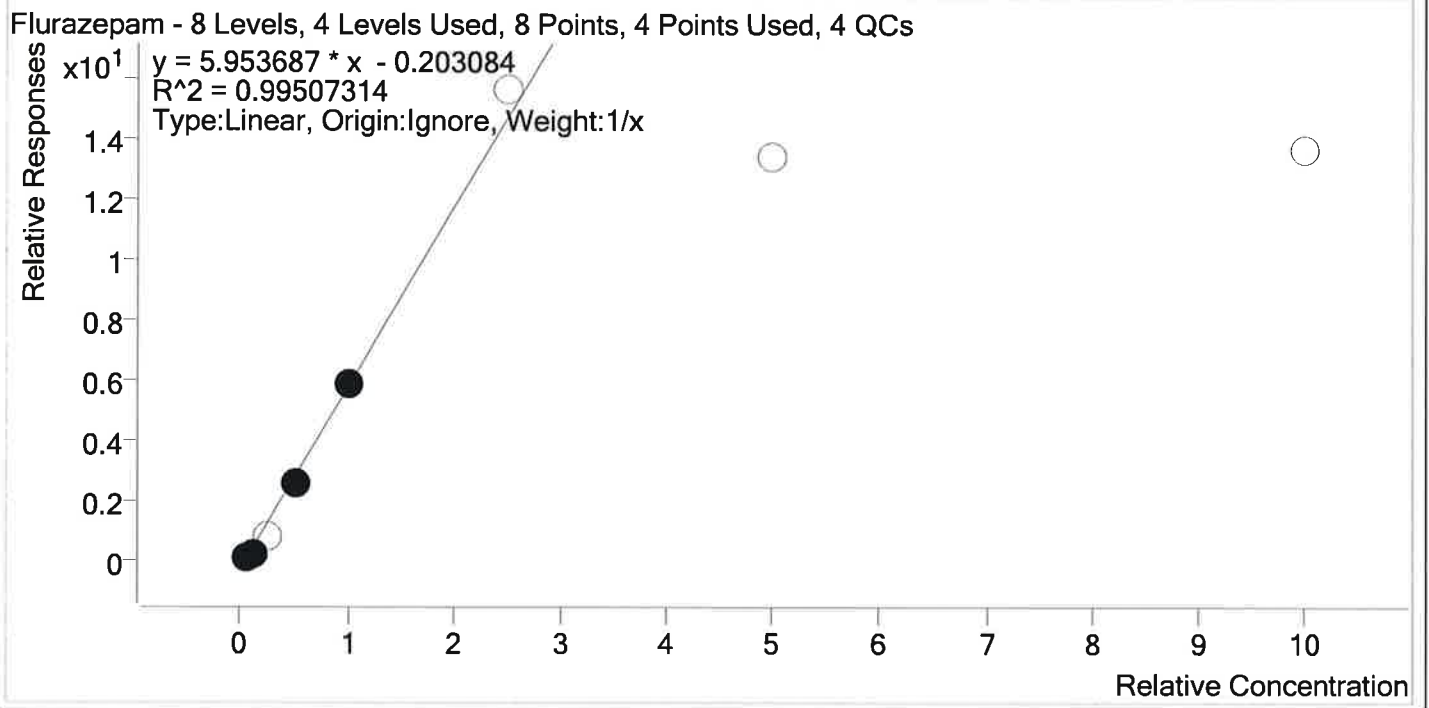
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p2 Cal 1-5ng	1	✓	5.0	3.6	72.3
p2 Cal 2- 10ng	2	✓	10.0	11.6	115.5
p2 Cal 3 -25ng	3	✓	25.0	29.4	117.6
p2 Cal 4-50ng	4	✓	50.0	49.2	98.4
p2 Cal 5-100ng	5	✓	100.0	96.2	96.2
p2 Cal 6-250ng	6	×	250.0	228.9	91.6
p2 Cal 7-500ng	7	×	500.0	657.3	131.5
p2 Cal 8-1000ng	8	×	1000.0	3864.0	386.4

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# AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032519 MDQ P2 wk1st 3132\QuantResults\MDQ P2 TS.batch.bin  
 Last Cal. Update 3/26/2019 9:23 AM  
 Analyst Name ISP\Datastor  
 Analyte Flurazepam Internal Standard Sufentanil-d5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p2 Cal 1-5ng	1	✓	5.0	5.9	117.3
p2 Cal 2- 10ng	2	✓	10.0	8.4	84.1
✖ p2 Cal 3 -25ng	3	✗	25.0	17.9	71.5
p2 Cal 4-50ng	4	✓	50.0	47.9	95.7
p2 Cal 5-100ng	5	✓	100.0	102.9	102.9
p2 Cal 6-250ng	6	✗	250.0	265.9	106.3
p2 Cal 7-500ng	7	✗	500.0	227.9	45.6
p2 Cal 8-1000ng	8	✗	1000.0	232.9	23.3

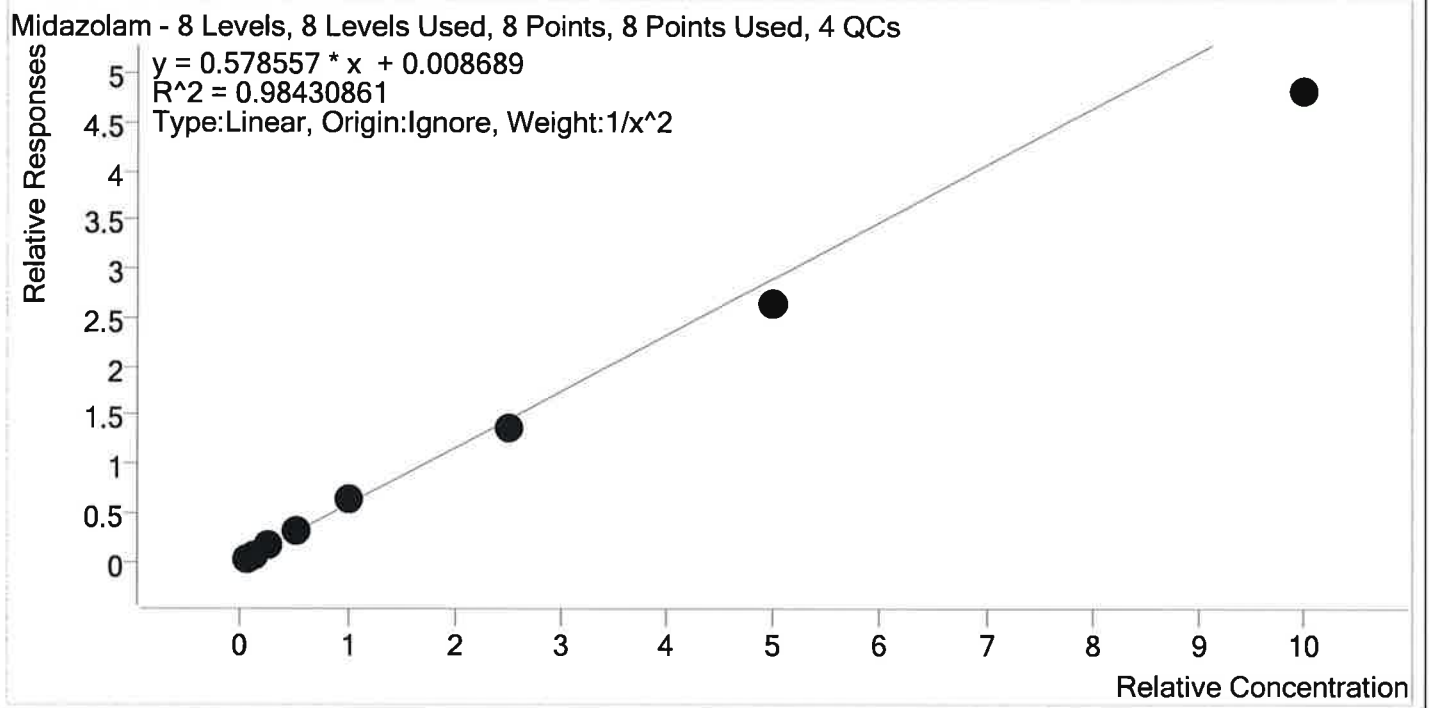
✖ Dropped due to apparent peak cutting off. -TS

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# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\032519 MDQ P2 wk1st 3132\QuantResults\MDQ P2 TS.batch.bin  
**Last Cal. Update** 3/26/2019 9:23 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Midazolam **Internal Standard** Midazolam-D4



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p2 Cal 1-5ng	1	✓	5.0	4.6	91.9
p2 Cal 2- 10ng	2	✓	10.0	11.0	109.7
p2 Cal 3 -25ng	3	✓	25.0	27.7	110.9
p2 Cal 4-50ng	4	✓	50.0	54.5	109.1
p2 Cal 5-100ng	5	✓	100.0	109.2	109.2
p2 Cal 6-250ng	6	✓	250.0	238.3	95.3
p2 Cal 7-500ng	7	✓	500.0	454.1	90.8
p2 Cal 8-1000ng	8	✓	1000.0	830.4	83.0

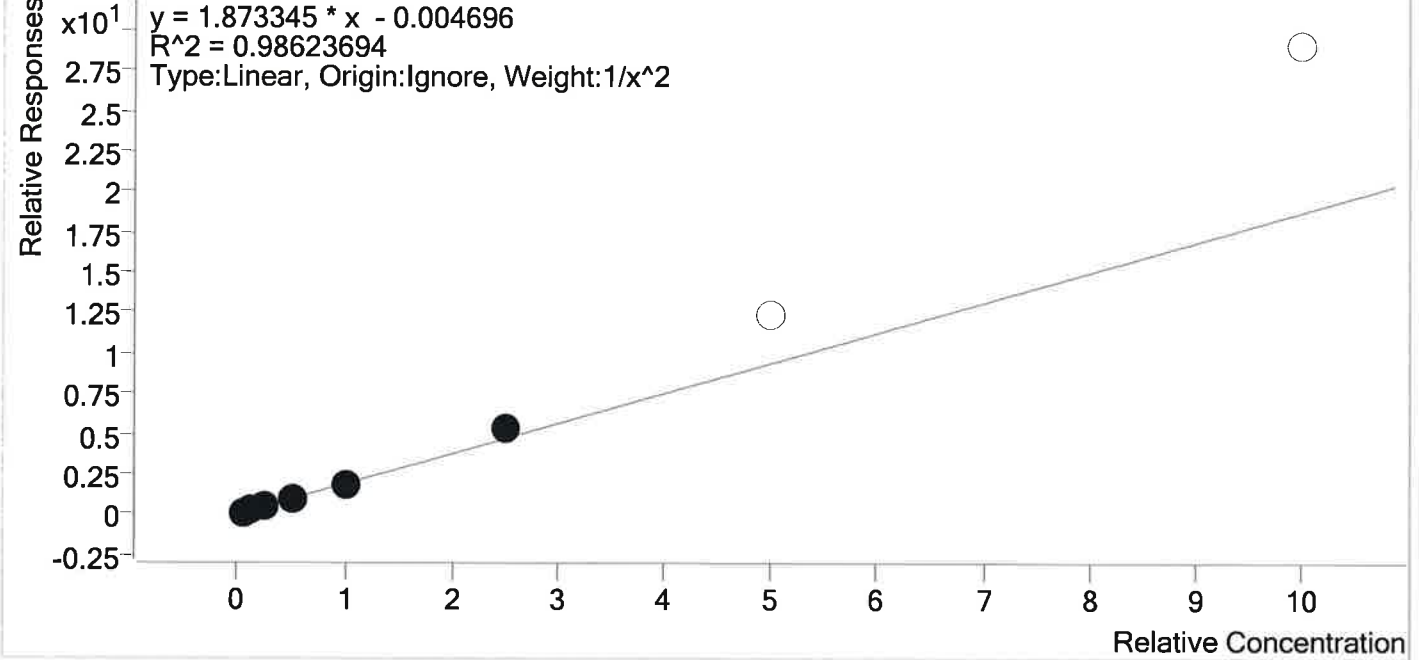
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# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\032519 MDQ P2 wk1st 3132\QuantResults\MDQ P2 TS.batch.bin  
**Last Cal. Update** 3/26/2019 9:23 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Phenytoin **Internal Standard** Phenytoin-D10

Phenytoin - 8 Levels, 6 Levels Used, 8 Points, 6 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p2 Cal 1-5ng	1	✓	5.0	5.1	102.9
p2 Cal 2- 10ng	2	✓	10.0	10.0	99.8
p2 Cal 3 -25ng	3	✓	25.0	22.0	88.1
p2 Cal 4-50ng	4	✓	50.0	46.2	92.5
p2 Cal 5-100ng	5	✓	100.0	100.8	100.8
p2 Cal 6-250ng	6	✓	250.0	290.0	116.0
p2 Cal 7-500ng	7	×	500.0	661.2	132.2
p2 Cal 8-1000ng	8	×	1000.0	1551.1	155.1

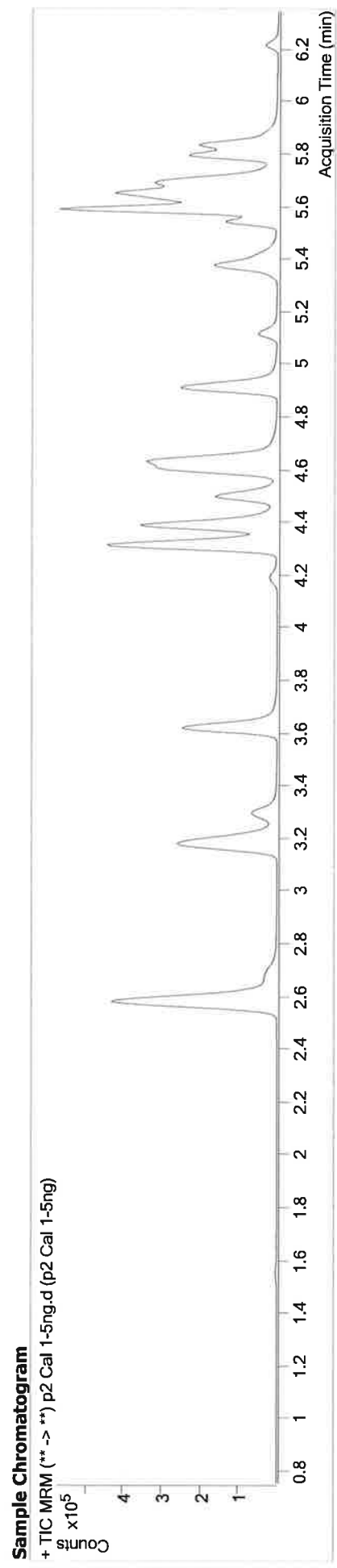


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# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2019\AM 28\032519 MDQ P2 wklist 3132\QuantResults\MDQ P2 TS.batch.bin  
**Calibration Last Update** 3/26/2019 9:23:03 AM

**Instrument** FALCO-LCMS (Property ID 069901) **Data File** p2 Cal 1-5ng.d  
**Type** Cal **Sample** p2 Cal 1-5ng  
**Acq. Method** MDQ P2 Combined 111418.m **Operator** Tamara Salazar  
**Sample Position** P2-H9  
**Injection Volume** 10  
**Acq. Date-Time** 3/25/2019 12:24:00 PM  
**Sample Info.**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoflunitrazepam	4.635	48903	2656.06	25.2	2555.57	478314	4.7808 ng/ml
acetyl-fentanyl	4.654	5805	1235.62	77.8	17255.23	581481	0.5632 ng/ml
Etizolam	5.816	17829	2749.24	24.6	8789.02	231688	3.6135 ng/ml
Flurazepam	5.345	42896	65902.99	13.9	784.22	293384	5.8669 ng/ml
Midazolam	5.810	10333	1930.18	93.9	∞	293006	4.5939 ng/ml
Phenytoin	5.467	1031	381.53	74.7	96.37	11244	5.1432 ng/ml



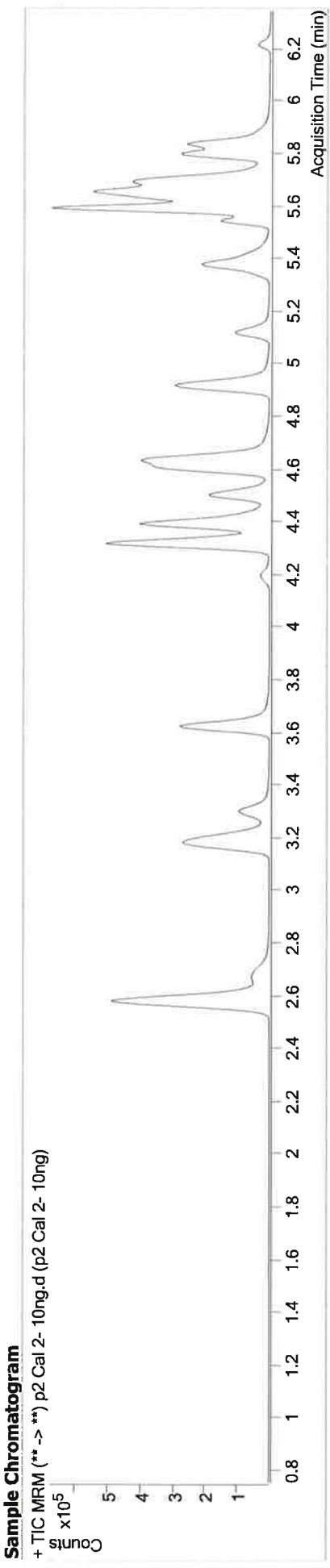
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# AM #28 Multi-Drug Quant. Results

Batch results Calibration Last Update D:\MassHunter\Data\2019\AM 28\032519 MDQ P2 wk1st 3132\QuantResults\MDQ P2 TS.batch.bin 3/26/2019 9:23:03 AM

<b>Instrument Type</b>	FALCO-LCMS (Property ID 069901)	<b>Data File</b>	p2 Cal 2- 10ng.d
<b>Acq. Method</b>	Cal	<b>Sample Operator</b>	Tamara Salazar
<b>Sample Position</b>	MDQ P2 Combined 111418.m	<b>Comment</b>	
<b>Injection Volume</b>	P2-G9		
<b>Acq. Date-Time</b>	10		
<b>Sample Info.</b>	3/25/2019 12:34:44 PM		



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoflunitrazepam	4.641	98716	7923.83	25.3	3893.01	493065	10.3957 ng/ml
acetyl-fentanyl	4.654	12575	7956.35	76.8	3437.85	638983	1.0393 ng/ml
Etizolam	5.816	38407	6752.50	26.0	2001.94	258007	11.5510 ng/ml
Flurazepam	5.345	97954	230942.39	13.1	1421.60	329320	8.4070 ng/ml
Midazolam	5.810	23221	15913.23	90.1	9054.48	321882	10.9671 ng/ml
Phenyletoin	5.467	2762	398.57	76.3	357.22	15150	9.9825 ng/ml

TS

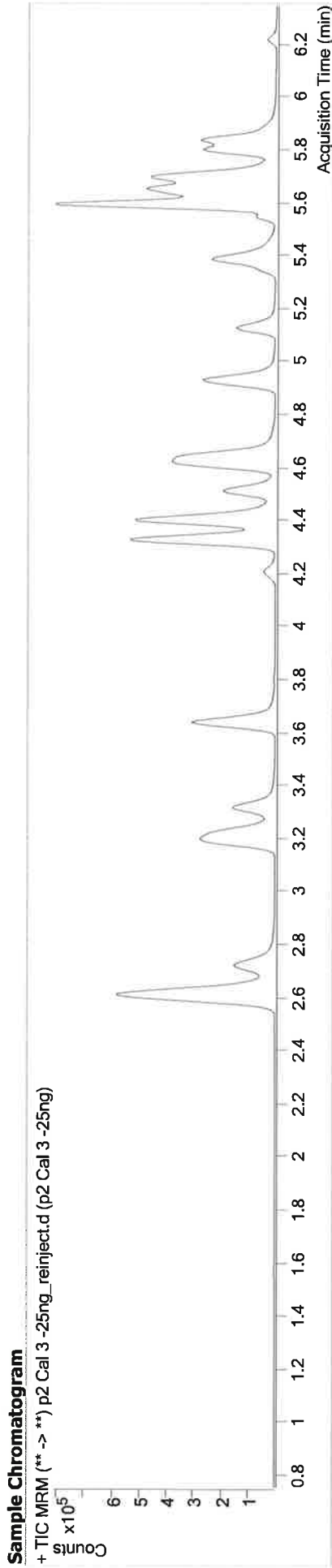


# AM #28 Multi-Drug Quant. Results

Batch results Calibration Last Update D:\MassHunter\Data\2019\AM 28\032519 MDQ P2 wklist 3132\QuantResults\MDQ P2 TS.batch.bin 3/26/2019 9:23:03 AM

Instrument Type FALCO-LCMS (Property ID 069901) Data File Sample Operator Comment  
 p2 Cal 3 -25ng\_reinject.d  
 p2 Cal 3 -25ng  
 Tamara Salazar

Acq. Method MDQ P2 Combined 111418.m  
 Sample Position P2-F9  
 Injection Volume 10  
 Acq. Date-Time 3/26/2019 8:48:22 AM  
 Sample Info.



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoflunitrazepam	4.648	261820	130025.46	25.2	45532.43	528188	27.3312 ng/ml
acetyl-fentanyl	4.660	14048	3507.51	77.8	11148.69	303980	2.3424 ng/ml
Etizolam	5.816	92767	14837.29	25.1	16637.63	298755	29.3955 ng/ml
Flurazepam	5.351	127567	∞	13.5	8028.62	148015	17.8870 ng/ml
Midazolam	5.810	36959	2969.91	90.1	∞	218498	27.7349 ng/ml
Phenytolam	5.467	6927	5033.19	79.9	∞	16981	22.0252 ng/ml

\*Calibrator re-injected on 03/26/19 due to poor response in some compounds. - TS

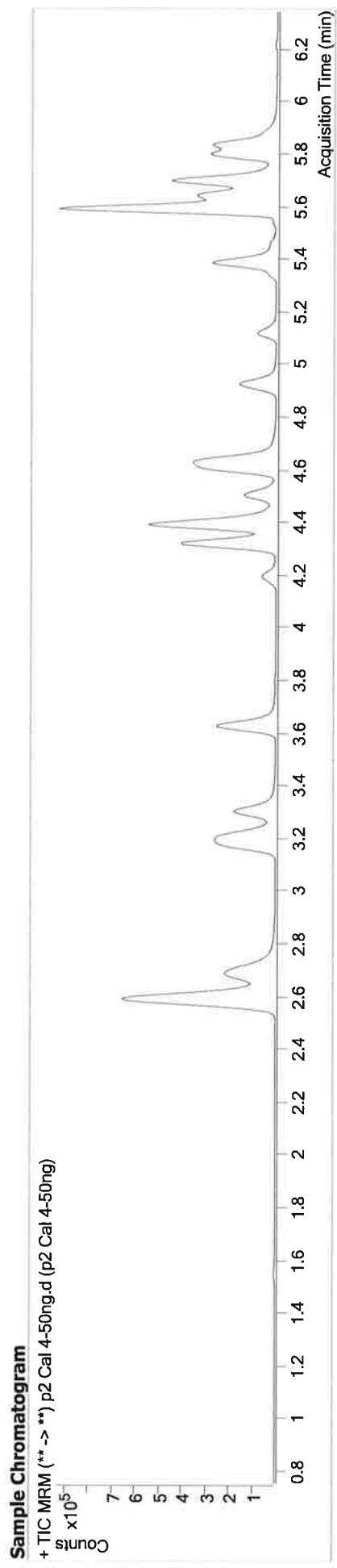


TS

# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2019\AM 28\032519 MDQ P2 wklist 3132\QuantResults\MDQ P2 TS.batch.bin  
**Calibration Last Update** 3/26/2019 9:23:03 AM

<b>Instrument</b>	FALCO-LCMS (Property ID 069901)	<b>Data File</b>	p2 Cal 4-50ng.d
<b>Type</b>	Cal	<b>Sample</b>	p2 Cal 4-50ng
<b>Acq. Method</b>	MDQ P2 Combined 111418.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P2-E9	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	3/25/2019 12:55:51 PM		



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoflunitrazepam	4.641	474454	30280.53	25.1	16209.57	490792	54.3270 ng/ml
acetyl-fentanyl	4.654	6309	2318.37	79.0	5573.43	65504	4.8027 ng/ml
Etizolam	5.816	151998	10896.08	25.8	7521.24	310255	49.1988 ng/ml
Flurazepam	5.345	66174	7035.43	13.3	∞	25002	47.8662 ng/ml
Midazolam	5.810	52625	4737.14	90.4	∞	162326	54.5328 ng/ml
Phenytoin	5.467	12367	5172.92	77.3	1088.50	14358	46.2260 ng/ml

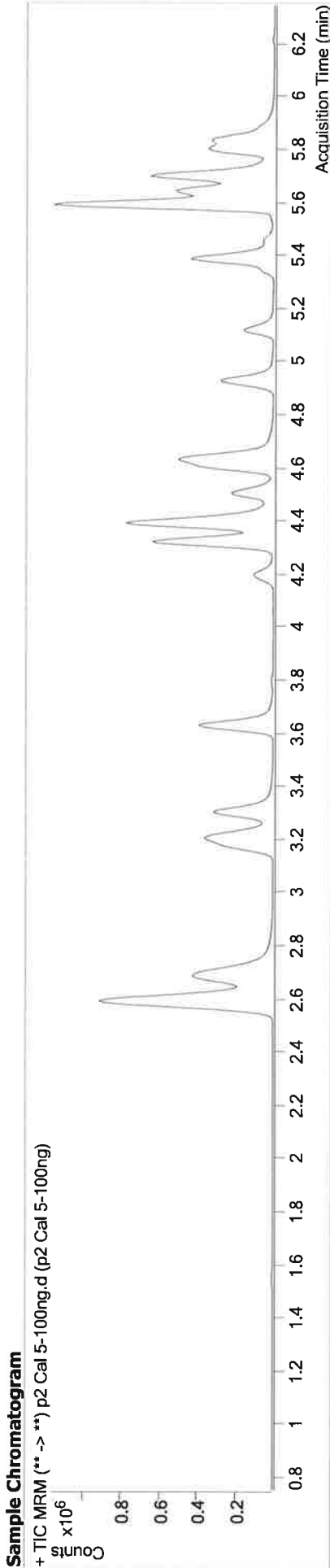
DS



# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2019\AM 28\032519 MDQ P2 wklist 3132\QuantResults\MDQ P2 TS.batch.bin  
**Calibration Last Update** 3/26/2019 9:23:03 AM

**Instrument** FALCO-LCMS (Property ID 069901) **Data File** p2 Cal 5-100ng.d  
**Type** Cal **Sample** p2 Cal 5-100ng  
**Acq. Method** MDQ P2 Combined 111418.m **Operator** Tamara Salazar  
**Sample Position** P2-D9  
**Injection Volume** 10  
**Acq. Date-Time** 3/25/2019 1:06:25 PM  
**Sample Info.**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoflunitrazepam	4.641	819717	28587.61	25.0	2745.46	460762	100.8853 ng/ml
acetyl-fentanyl	4.654	11277	2052.52	81.9	31589.12	58387	9.5579 ng/ml
Etizolam	5.816	252535	23382.72	25.6	∞	275672	96.2412 ng/ml
Flurazepam	5.345	130722	∞	13.8	1748.88	22078	102.8599 ng/ml
Midazolam	5.810	88399	12741.47	89.0	3556.24	137960	109.2493 ng/ml
Phenyletoin	5.467	29058	1109.63	75.9	2168.26	15430	100.7784 ng/ml

TS



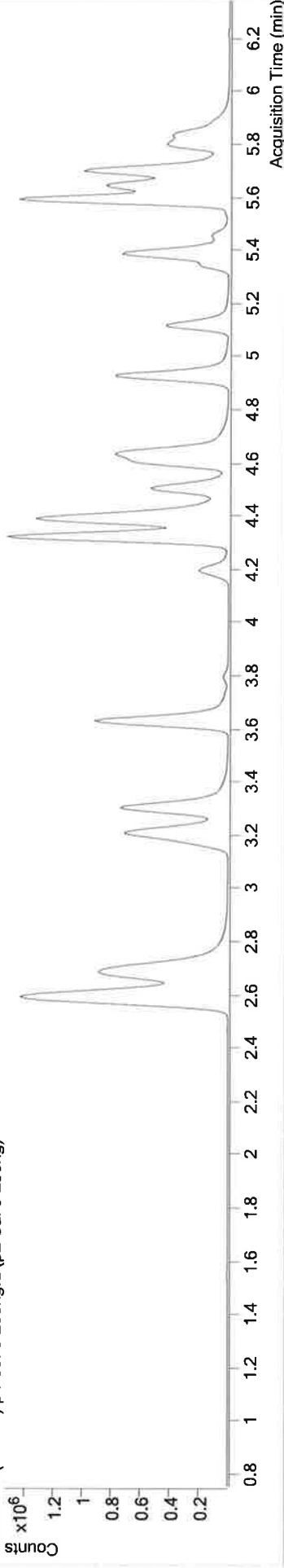
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2019\AM 28\032519 MDQ P2 wklst 3132\QuantResults\MDQ P2 TS.batch.bin  
**Calibration Last Update** 3/26/2019 9:23:03 AM

**Instrument** FALCO-LCMS (Property ID 069901) **Data File** p2 Cal 6-250ng.d  
**Type** Cal **Sample** p2 Cal 6-250ng  
**Acq. Method** MDQ P2 Combined 111418.m **Operator** Tamara Salazar  
**Sample Position** P2-C9  
**Injection Volume** 10  
**Acq. Date-Time** 3/25/2019 1:16:58 PM  
**Sample Info.**

**Sample Chromatogram**

+ TIC MRM (\*\* -> \*\*) p2 Cal 6-250ng.d (p2 Cal 6-250ng)



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoflunitrazepam	4.641	1527921	24322.70	25.1	8879.26	427202	203.9087 ng/ml
acetyl-fentanyl	4.654	31140	5195.88	84.7	4456.12	63345	24.2144 ng/ml
Etizolam	5.816	385504	11963.20	25.5	4748.31	182045	228.8775 ng/ml
Flurazepam	5.345	405475	178734.03	13.3	167697.88	25950	265.8607 ng/ml
Midazolam	5.810	156369	4362.61	91.5	5172.29	112692	238.3322 ng/ml
Phenytoin	5.467	74262	6835.57	78.8	16034.88	13684	289.9501 ng/ml

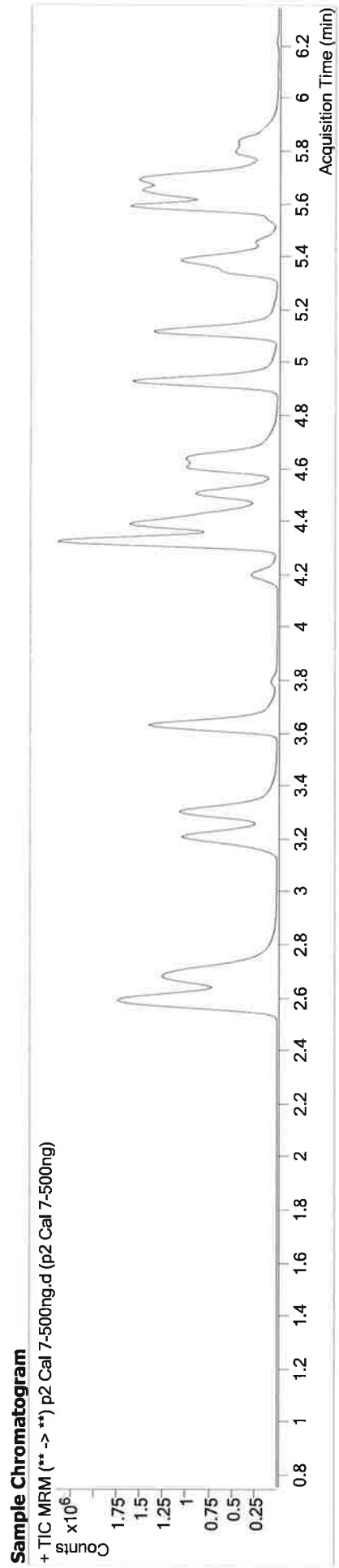
TS



# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2019\AM 28\032519 MDQ P2 wk1st 3132\QuantResults\MDQ P2 TS.batch.bin  
**Calibration Last Update** 3/26/2019 9:23:03 AM

**Instrument Type** FALCO-LCMS (Property ID 069901)  
**Data File** p2 Cal 7-500ng.d  
**Sample Operator** Tamara Salazar  
**Acq. Method** MDQ P2 Combined 111418.m  
**Sample Position** P2-B9  
**Injection Volume** 10  
**Acq. Date-Time** 3/25/2019 1:27:32 PM  
**Sample Info.**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoflunitrazepam	4.641	2129806	51862.47	25.3	63767.21	366174	332.2810 ng/ml
acetyl-fentanyl	4.660	150555	52053.30	86.0	10452.39	148787	49.7654 ng/ml
Etizolam	5.822	472548	8946.97	25.3	4633.64	78771	657.3310 ng/ml
Flurazepam	5.345	1272648	1019448.86	13.9	16618.03	95223	227.8916 ng/ml
Midazolam	5.810	244264	4567.82	88.5	4499.71	92659	454.1399 ng/ml
Phenytoin	5.467	158661	27785.14	76.3	5602.58	12813	661.2441 ng/ml

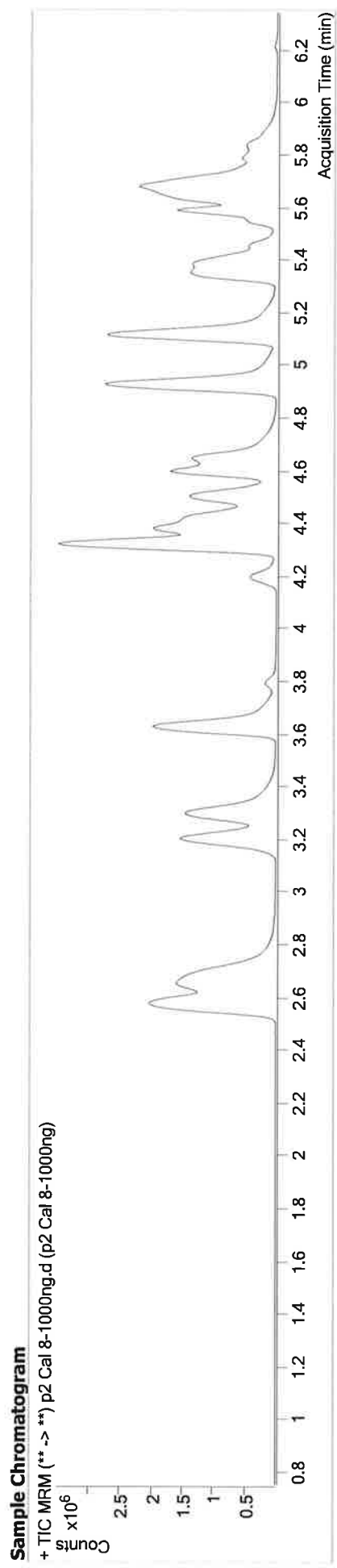
TS



# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2019\AM 28\032519 MDQ P2 wklist 3132\QuantResults\MDQ P2 TS.batch.bin  
**Calibration Last Update** 3/26/2019 9:23:03 AM

**Instrument** FALCO-LCMS (Property ID 069901) **Data File** p2 Cal 8-1000ng.d  
**Type** Cal **Sample Operator** Tamara Salazar  
**Acq. Method** MDQ.P2 Combined 111418.m  
**Sample Position** P2-A9  
**Injection Volume** 10  
**Acq. Date-Time** 3/25/2019 1:38:06 PM  
**Sample Info.**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoflunitrazepam	4.641	2632531	2955.48	25.1	∞	258254	583.1554 ng/ml
acetyl-fentanyl	4.660	613764	236707.35	89.1	1917394.39	296544	101.7146 ng/ml
Etizolam	5.822	534823	36173.48	25.0	7598.57	15260	3863.9738 ng/ml
Flurazepam	5.345	3064425	551090.76	13.8	694293.88	224300	232.8852 ng/ml
Midazolam	5.803	370720	∞	88.7	15226.83	77028	830.3592 ng/ml
Phenytoln	5.467	282246	39618.73	75.8	25767.47	9715	1551.0854 ng/ml