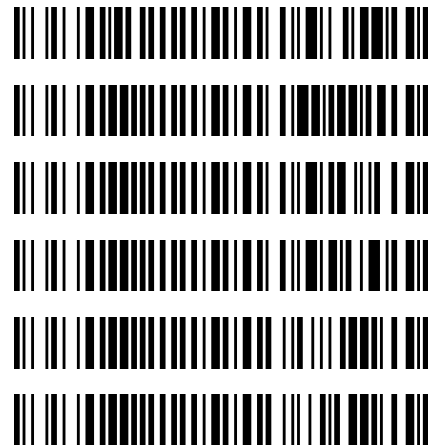


**Worklist: 5991**

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>
M2022-1785	1	BCK	AM 28 Blood Multi-Drug Quant Panel 2 by LC-QQQ
P2022-1248	1	BCK	AM 28 Blood Multi-Drug Quant Panel 2 by LC-QQQ
P2022-1322	1	BCK	AM 28 Blood Multi-Drug Quant Panel 2 by LC-QQQ
P2022-1322	3	BCK	AM 28 Blood Multi-Drug Quant Panel 2 by LC-QQQ
P2022-1383	1	BCK	AM 28 Blood Multi-Drug Quant Panel 2 by LC-QQQ
P2022-1426	1	BCK	AM 28 Blood Multi-Drug Quant Panel 2 by LC-QQQ



**Request for Departure from an Analytical Method or Quality Standard**

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Deviation Number (assigned by QM): TOX-22-01

Date of Request: **2/3/2022**

Requestor/Discipline: Celena Shrum/Toxicology

Analytical Method/Quality Standard, Revision #: AM #25, AM #28, AM #29, Revision 13

Temporary or Permanent Deviation: Permanent

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**Scope of Deviation** (record specific information, e.g. affected programs, evidence types, expected end date; etc): Deviation will remain in place until the change is made in the next method revision.

**Deviation Request** (Describe detailed instructions of the changes being made; include reference to specific section number(s) in the method manual): 4.1.4 (Place plate on shaking incubator at approximately 900 rpm for approximately 15 minutes) of AM #25, AM # 28, and AM #29 is being removed. The removal of this step was tested in the validation “Addition of Compounds/Modifications for the MDS” (approved on 2/2/2022) and it was determined that that step is not necessary and can be removed.

**Technical Justification for Analytical Method Deviations:** Refer to validation “Addition of Compounds/Modifications for the MDS” (approved on 2/2/2022)

**Technical Review**

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Departure approved  
Comments:

Departure Not Approved  
Comments:

Approver: Rachel Cutler  
Title: Laboratory Manager



Date: 2/10/2022

**Quality Review**

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Quality Approver: Jason Crowe  
Title: Quality Manager  
Date: 2/10/2022



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

TS

Extraction Date: 06/13/2022

Analyst: Tamara Salazar

Plate lot#: 220316

Plate Retest Date: 09/16/2022

Mobile phase A: 5mM Amm Form + 0.01% FA

Mobile phase B: 0.01% Formic Acid in MeOH

Blank Blood Lot: Lampire 20L20723

Blank Urine Lot: N/A

Column: Agilent 120 EC-C18 (2.1x 100-2.7um)

LCMS-QQQ ID: 069901

## 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. **Urine hydrolysis: Pipette 250 ul urine in blank well, add 40 ul BG Turbo, add 100 ul 500 mM sodium phosphate buffer, mix for at least 5 minutes at ambient temperature. Pipette 250µL blood (calibrated pipette) or 250µL hydrolyzed urine in wells of analytical (standards) plate. Pipette ID: 42**
- 3. Pipette **250µL 0.5M ammonium hydroxide** in wells of analytical plate.
- 4. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 5. Transfer **300µL of blood+base/urine+base** mixture to corresponding wells of SLE+ plate.
- 6. 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)**
- 7. Wait 5 minutes.
- 8. Add **900uL ethyl acetate.**
- 9. Wait 5 minutes.
- 10. Apply positive pressure for approx. 15 seconds. **(10-15 PSI- Selector to the left).**
- 11. Add **900uL ethyl acetate.**
- 12. Wait 5 minutes.
- 13. Apply positive pressure for approx. 15 seconds. **(10-15 PSI- Selector to the left).**
- 14. Remove plate containing eluate.
- 15. If run contains urine, add 50µL 1% HCl in MeOH to wells and place plate cover on plate before drying (optional). Place on SPE Dry and evaporate to dryness at approx. 35°C.
- 16. Reconstitute in **100µL 20% MeOH** and heat seal plate with foil.

## Post-Analytic

- 1. Create batch and process data.
- 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? Yes, see comments Add Control data to QC tracking spreadsheet.
- 6. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports.

COMMENTS: *Only Hydroxyzine, Norketamine, O-desmethylvenlafaxine and Topiramate evaluated in this run. Norketamine 5-250 --calibrators 7 and 8 dropped due to accuracy*

	1	2	3	4	5	6	7	8	9	10	11	12
A	IS + Cal. 1	IS + QC_1	IS + Sample	IS + Cal. 1	IS + QC_1	P2022-1383-1	IS + Sample	IS + Sample	IS + Cal. 8	IS + Sample	IS + Sample	IS + Cal. 8
B	IS + Cal. 2	IS + QC_2	IS + Sample	IS + Cal. 2	IS + QC_2	P2022-1426-1	IS + Sample	IS + Sample	IS + Cal. 7	IS + Sample	IS + Sample	IS + Cal. 7
C	IS + Cal. 3	IS + QC_3	IS + Sample	IS + Cal. 3	IS + QC_3	Neg Blood	IS + Sample	IS + Sample	IS + Cal. 6	IS + Sample	IS + Sample	IS + Cal. 6
D	IS + Cal. 4	IS + QC_4	IS + Sample	IS + Cal. 4	IS + QC_4	IS + Sample	IS + Sample	IS + Sample	IS + Cal. 5	IS + Sample	IS + Sample	IS + Cal. 5
E	IS + Cal. 5	IS + Sample	IS + Sample	IS + Cal. 5	M2022-1785-1	IS + Sample	IS + Sample	IS + QC_4	IS + Cal. 4	IS + Sample	IS + QC_4	IS + Cal. 4
F	IS + Cal. 6	IS + Sample	IS + Sample	IS + Cal. 6	P2022-1248-1	IS + Sample	IS + Sample	IS + QC_3	IS + Cal. 3	IS + Sample	IS + QC_3	IS + Cal. 3
G	IS + Cal. 7	IS + Sample	IS + Sample	IS + Cal. 7	P2022-1322-1	IS + Sample	IS + Sample	IS + QC_2	IS + Cal. 2	IS + Sample	IS + QC_2	IS + Cal. 2
H	IS + Cal. 8	IS + Sample	IS + Sample	IS + Cal. 8	P2022-1322-3	IS + Sample	IS + Sample	IS + QC_1	IS + Cal. 1	IS + Sample	IS + QC_1	IS + Cal. 1

All wells to contain 60 µl of Trapping Solution

	1	2	3	4	5	6	7	8	9	10	11	12
A	IS + Cal. 1	IS + QC_1	M2022-1785-1	P2022-1322-1	P2022-1441-1		IS + Cal. 1	IS + QC_1	P2022-1383-1			
B	IS + Cal. 2	IS + QC_2	M2022-1823-1	P2022-1322-2	P2022-1452-1		IS + Cal. 2	IS + QC_2	P2022-1426-1			
C	IS + Cal. 3	IS + QC_3	M2022-1848-2	P2022-1322-3	M2022-1987-3		IS + Cal. 3	IS + QC_3	Neg Blood			
D	IS + Cal. 4	IS + QC_4	M2022-1910-1	P2022-1368-1			IS + Cal. 4	IS + QC_4				
E	IS + Cal. 5	IS + QC_2	P2022-1111-1	P2022-1381-1			IS + Cal. 5	M2022-1785-1				
F	IS + Cal. 6	Neg Blood	P2022-1195-1	P2022-1383-1	P2022-1393-1		IS + Cal. 6	P2022-1248-1				
G	IS + Cal. 7	M2022-1560-3	P2022-1205-3	P2022-1384-1	P2022-1425-1		IS + Cal. 7	P2022-1322-1				
H	IS + Cal. 8	M2022-1634-1	P2022-1248-1	P2022-1385-1	P2022-1426-1		IS + Cal. 8	P2022-1322-3				

Columns 1-5 indicate sample ran for AM 28 Panel 1

Columns 7-9 indicate sample ran for AM 28 Panel 2

SLE/Collection Plate Map

TS



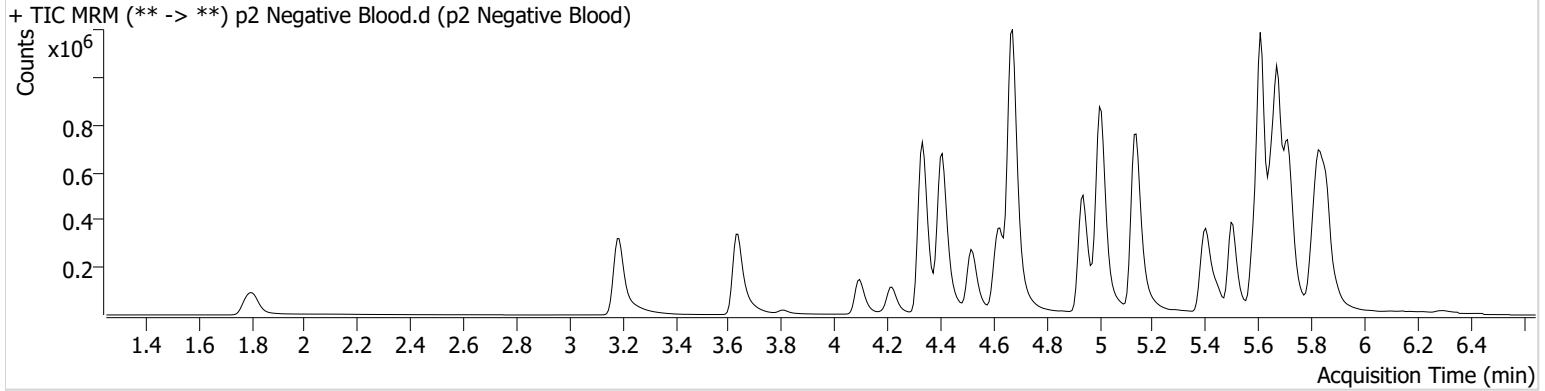
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2022\AM 27-28\061322 AM 27 28 P1 and P2 TS\QuantResults\AM 28 P2.batch\_evaluated  
compounds only.bin.batch.bin

**Calibration Last Update** 6/14/2022 1:05:22 PM

<b>Instrument</b>	Falco (069901)	<b>Data File</b>	p2 Negative Blood.d
<b>Type</b>	Sample	<b>Sample</b>	p2 Negative Blood
<b>Acq. Method</b>	AM 28 MDQ P2 102521.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P2-C9	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	6/13/2022 10:08:09 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



TS



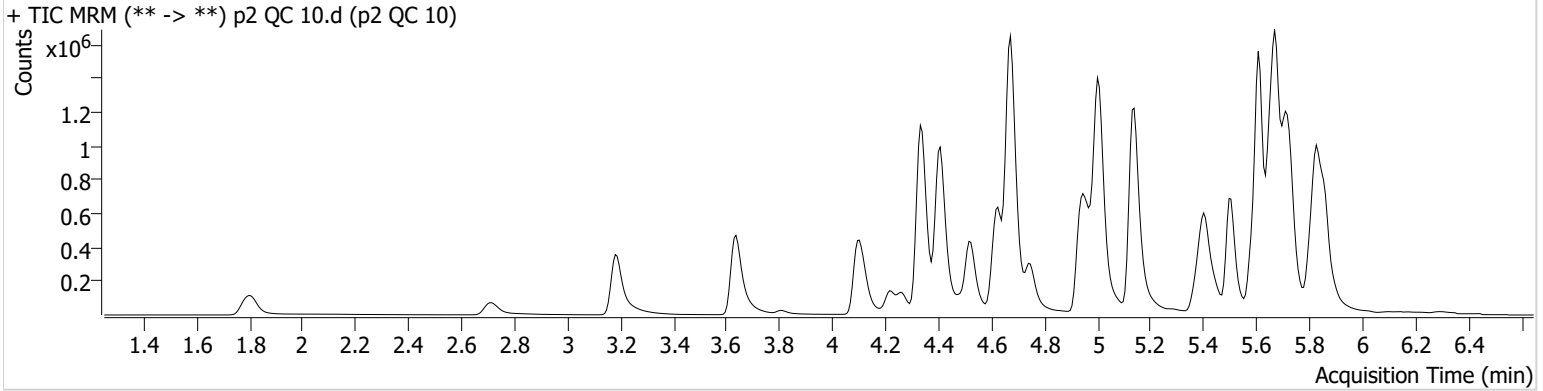
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2022\AM 27-28\061322 AM 27 28 P1 and P2 TS\QuantResults\AM 28 P2.batch\_evaluated  
compounds only.bin.batch.bin

**Calibration Last Update** 6/14/2022 1:05:22 PM

<b>Instrument</b>	Falco (069901)	<b>Data File</b>	p2 QC 10.d
<b>Type</b>	QC	<b>Sample</b>	p2 QC 10
<b>Acq. Method</b>	AM 28 MDQ P2 102521.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P2-A8	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	6/13/2022 8:53:02 PM		
<b>Sample Info.</b>			

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Hydroxyzine	5.729	320126	2102.02	67.9	927.88	1036810	11.2394 ng/ml
Norketamine	4.126	272167	5371.19	21.0	415.58	472309	10.8556 ng/ml
o-Desmethylvenlafaxine	4.096	537117	5520.58	28.8	2141.90	472309	10.4936 ng/ml
Topiramate	4.993	6477	6863.21	44.5	994.18	89277	9.6093 ng/ml

TS



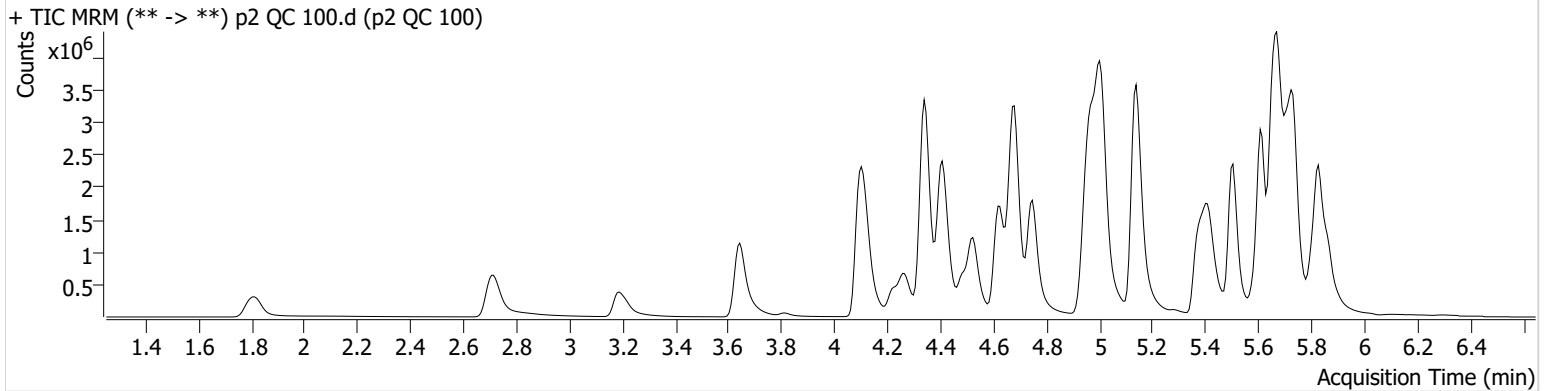
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2022\AM 27-28\061322 AM 27 28 P1 and P2 TS\QuantResults\AM 28 P2.batch\_evaluated  
compounds only.bin.batch.bin

**Calibration Last Update** 6/14/2022 1:05:22 PM

<b>Instrument</b>	Falco (069901)	<b>Data File</b>	p2 QC 100.d
<b>Type</b>	QC	<b>Sample</b>	p2 QC 100
<b>Acq. Method</b>	AM 28 MDQ P2 102521.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P2-B8	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	6/14/2022 12:38:16 AM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Hydroxyzine	5.729	2329491	5565.51	73.6	2180.70	876321	102.4274 ng/ml
Norketamine	4.126	1914824	1680.89	20.8	950.50	411605	94.6211 ng/ml
o-Desmethylvenlafaxine	4.096	4389141	7494.13	28.2	2016.70	411605	95.8696 ng/ml
Topiramate	4.993	35123	2120.77	45.5	165.37	55493	97.2667 ng/ml



TS



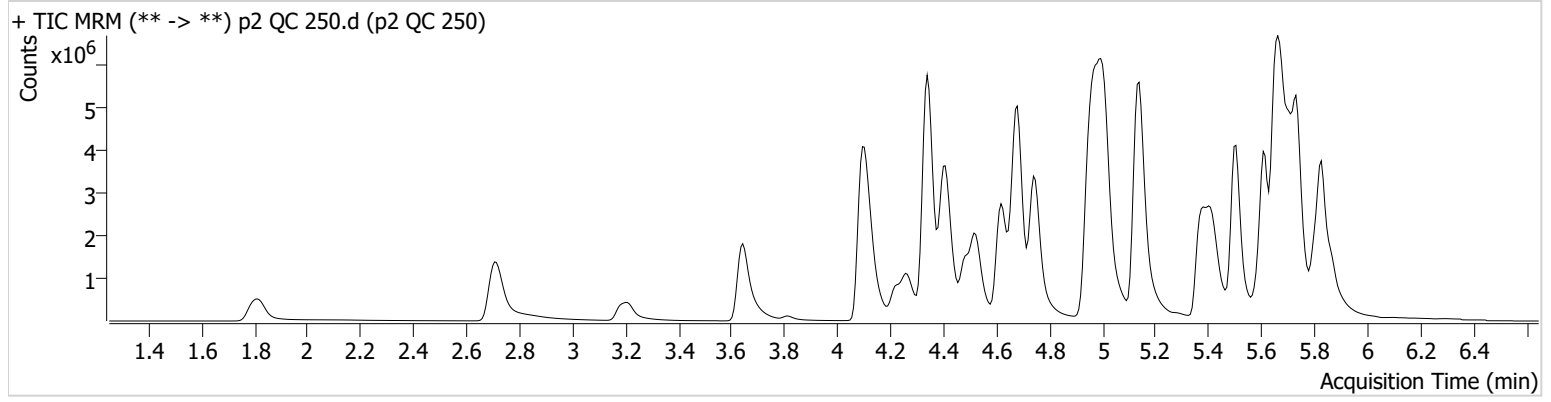
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2022\AM 27-28\061322 AM 27 28 P1 and P2 TS\QuantResults\AM 28 P2.batch\_evaluated  
compounds only.bin.batch.bin

**Calibration Last Update** 6/14/2022 1:05:22 PM

<b>Instrument</b>	Falco (069901)	<b>Data File</b>	p2 QC 250.d
<b>Type</b>	QC	<b>Sample</b>	p2 QC 250
<b>Acq. Method</b>	AM 28 MDQ P2 102521.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P2-C8	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	6/13/2022 9:14:30 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Hydroxyzine	5.736	4393441	8074.76	74.8	11549.59	680953	249.6647 ng/ml
Norketamine	4.126	3220873	973.20	20.9	1667.55	320323	205.6622 ng/ml
o-Desmethylvenlafaxine	4.096	8891598	515054.58	27.5	50567.38	320323	249.0763 ng/ml
Topiramate	4.986	49003	69247.58	42.4	16355.66	29312	259.7710 ng/ml

TS



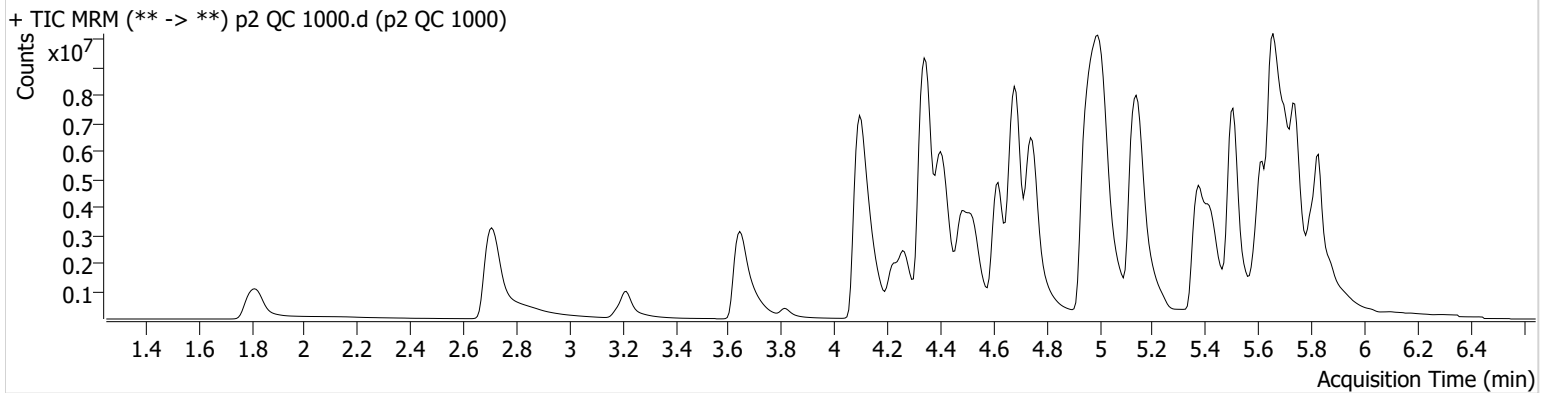
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2022\AM 27-28\061322 AM 27 28 P1 and P2 TS\QuantResults\AM 28 P2.batch\_evaluated  
compounds only.bin.batch.bin

**Calibration Last Update** 6/14/2022 1:05:22 PM

<b>Instrument</b>	Falco (069901)	<b>Data File</b>	p2 QC 1000.d
<b>Type</b>	QC	<b>Sample</b>	p2 QC 1000
<b>Acq. Method</b>	AM 28 MDQ P2 102521.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P2-D8	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	6/13/2022 9:35:58 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Hydroxyzine	5.736	8266494	2455.18	76.7	97533.49	356303	899.7151 ng/ml
* <del>Norketamine</del>	<del>4.126</del>	<del>5784038</del>	<del>323254.02</del>	<del>21.0</del>	<del>5070.08</del>	<del>181187</del>	<del>655.0860 ng/ml</del>
o-Desmethylvenlafaxine	4.096	19920813	34598.71	27.2	92209.63	181187	985.6592 ng/ml
Topiramate	4.993	49536	56853.42	42.8	23456.28	7504	1030.9120 ng/ml

\*Outside curve range.

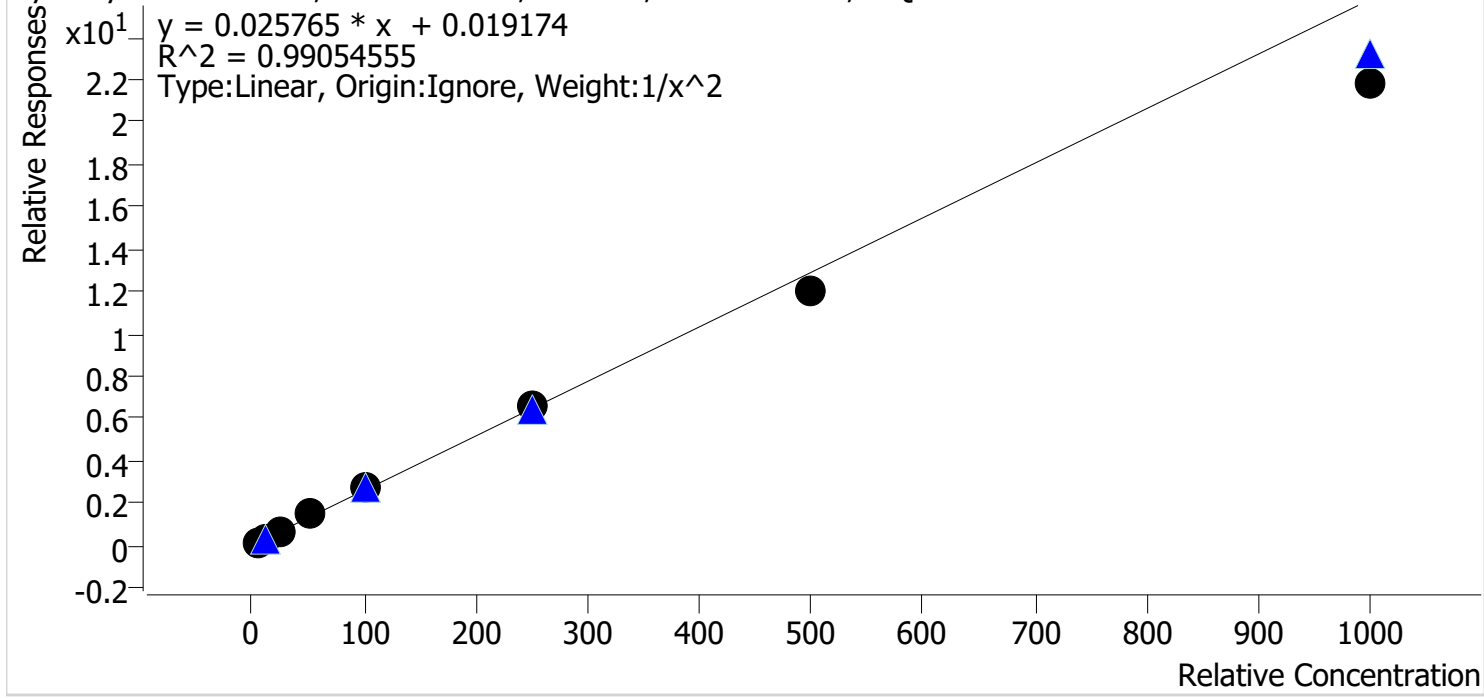
TS



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

**Batch results** D:\MassHunter\Data\2022\AM 27-28\061322 AM 27 28 P1 and P2 TS\QuantResults\AM 28 P2.batch\_evaluated compounds only.bin.batch.bin  
**Last Cal. Update** 6/14/2022 1:05 PM  
**Analyst Name** ISP\datastor  
**Analyte** Hydroxyzine **Internal Standard** Clozapine-D4

Hydroxyzine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



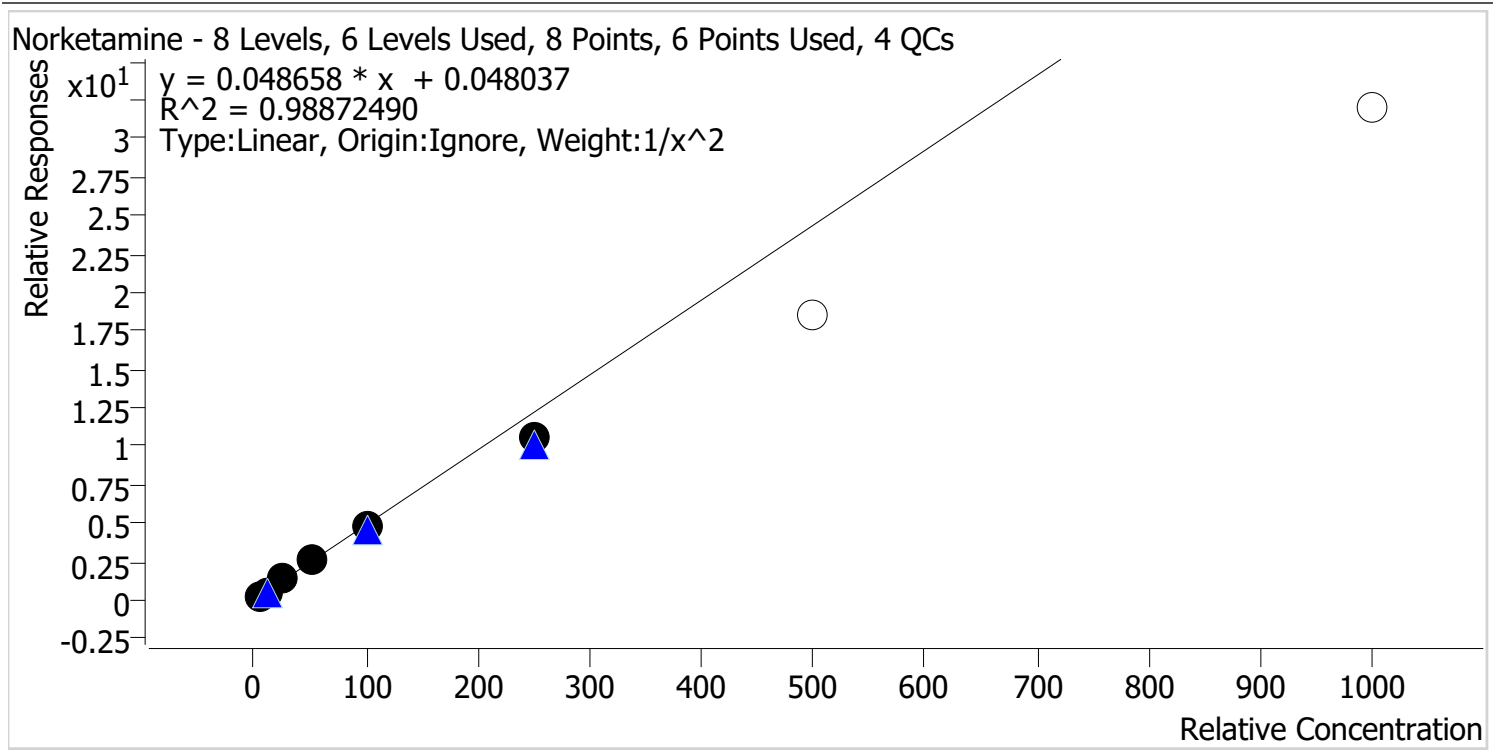
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p2 Cal 1-5ng	1	✓	5.0	4.8	95.3
p2 Cal 2-10ng	2	✓	10.0	10.4	104.1
p2 Cal 3 -25ng	3	✓	25.0	27.0	107.9
p2 Cal 4-50ng	4	✓	50.0	55.1	110.2
p2 Cal 5-100ng	5	✓	100.0	104.0	104.0
p2 Cal 6-250ng	6	✓	250.0	252.0	100.8
p2 Cal 7-500ng	7	✓	500.0	465.0	93.0
p2 Cal 8-1000ng	8	✓	1000.0	847.4	84.7

TS



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

**Batch results** D:\MassHunter\Data\2022\AM 27-28\061322 AM 27 28 P1 and P2 TS\QuantResults\AM 28 P2.batch\_evaluated compounds only.bin.batch.bin  
**Last Cal. Update** 6/14/2022 1:05 PM  
**Analyst Name** ISP\datastor  
**Analyte** Norketamine **Internal Standard** o-Desmethylvenlafaxine -D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p2 Cal 1-5ng	1	✓	5.0	4.7	94.6
p2 Cal 2-10ng	2	✓	10.0	10.7	107.4
p2 Cal 3 -25ng	3	✓	25.0	26.7	106.8
p2 Cal 4-50ng	4	✓	50.0	53.4	106.9
p2 Cal 5-100ng	5	✓	100.0	98.4	98.4
p2 Cal 6-250ng	6	✓	250.0	214.7	85.9
p2 Cal 7-500ng	7	✗	500.0	378.1	75.6
p2 Cal 8-1000ng	8	✗	1000.0	656.6	65.7

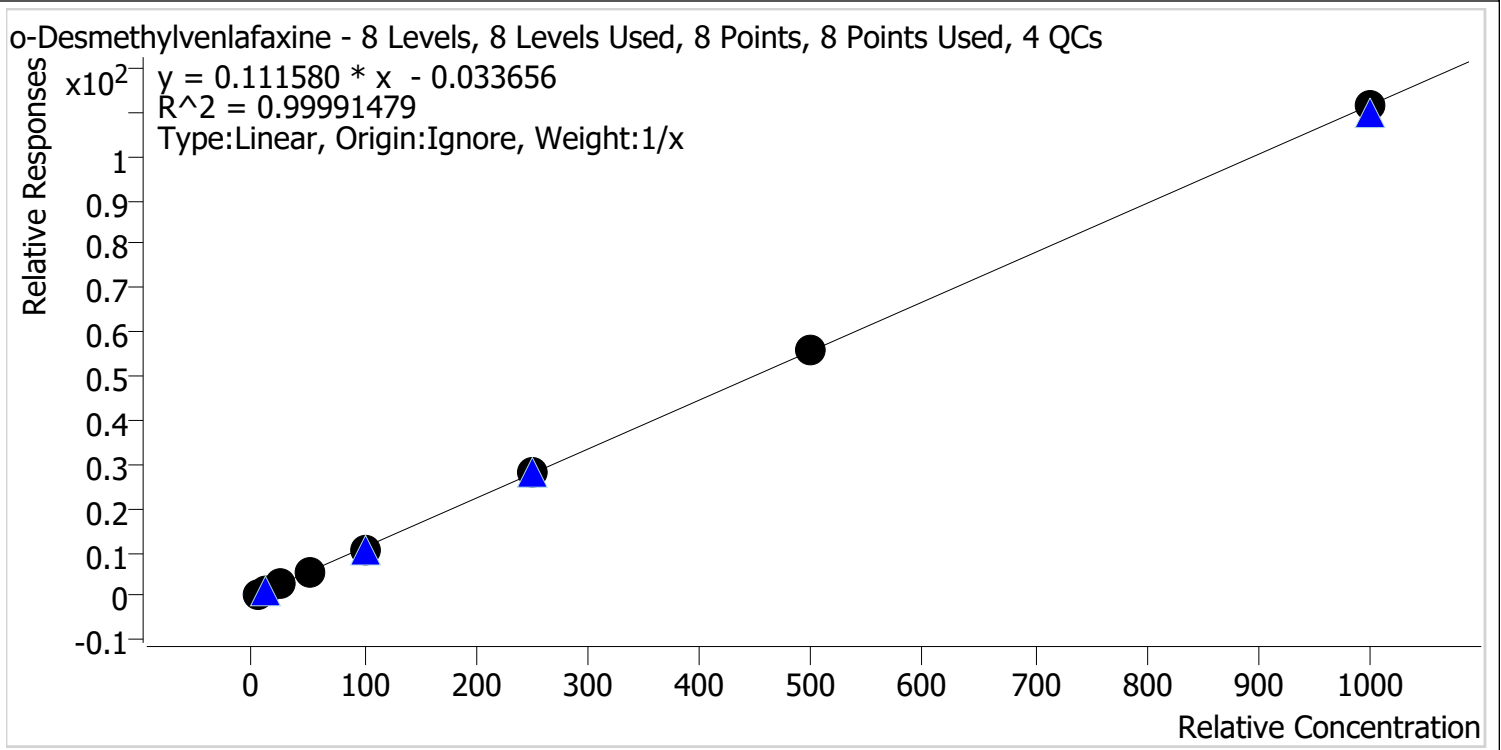
Calibrators 7 and 8 dropped due to accuracy.

TS



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

**Batch results** D:\MassHunter\Data\2022\AM 27-28\061322 AM 27 28 P1 and P2 TS\QuantResults\AM 28 P2.batch\_evaluated compounds only.bin.batch.bin  
**Last Cal. Update** 6/14/2022 1:05 PM  
**Analyst Name** ISP\datastor  
**Analyte** o-Desmethylvenlafaxine **Internal Standard** o-Desmethylvenlafaxine -D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p2 Cal 1-5ng	1	✓	5.0	5.1	101.2
p2 Cal 2-10ng	2	✓	10.0	10.4	103.9
p2 Cal 3 -25ng	3	✓	25.0	24.4	97.8
p2 Cal 4-50ng	4	✓	50.0	49.5	99.0
p2 Cal 5-100ng	5	✓	100.0	97.1	97.1
p2 Cal 6-250ng	6	✓	250.0	251.1	100.5
p2 Cal 7-500ng	7	✓	500.0	503.8	100.8
p2 Cal 8-1000ng	8	✓	1000.0	998.5	99.9

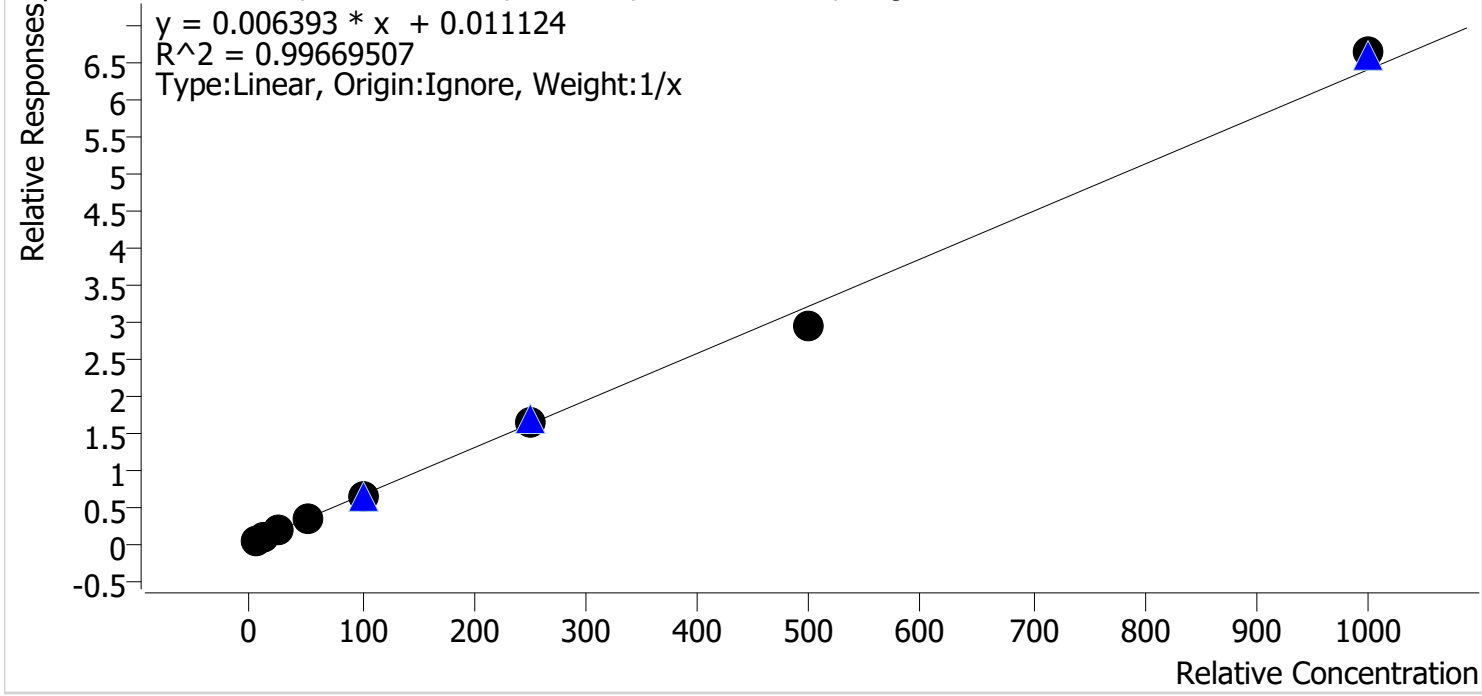
TS



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

**Batch results** D:\MassHunter\Data\2022\AM 27-28\061322 AM 27 28 P1 and P2 TS\QuantResults\AM 28 P2.batch\_evaluated compounds only.bin.batch.bin  
**Last Cal. Update** 6/14/2022 1:05 PM  
**Analyst Name** ISP\datastor  
**Analyte** Topiramate **Internal Standard** Topiramate-d12

Topiramate - 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	✓	5.0	4.2	83.5
p2 Cal 2-10ng	2	✓	10.0	11.2	111.5
p2 Cal 3 -25ng	3	✓	25.0	27.4	109.7
p2 Cal 4-50ng	4	✓	50.0	51.4	102.8
p2 Cal 5-100ng	5	✓	100.0	94.6	94.6
p2 Cal 6-250ng	6	✓	250.0	256.4	102.6
p2 Cal 7-500ng	7	✓	500.0	458.1	91.6
p2 Cal 8-1000ng	8	✓	1000.0	1036.8	103.7

TS



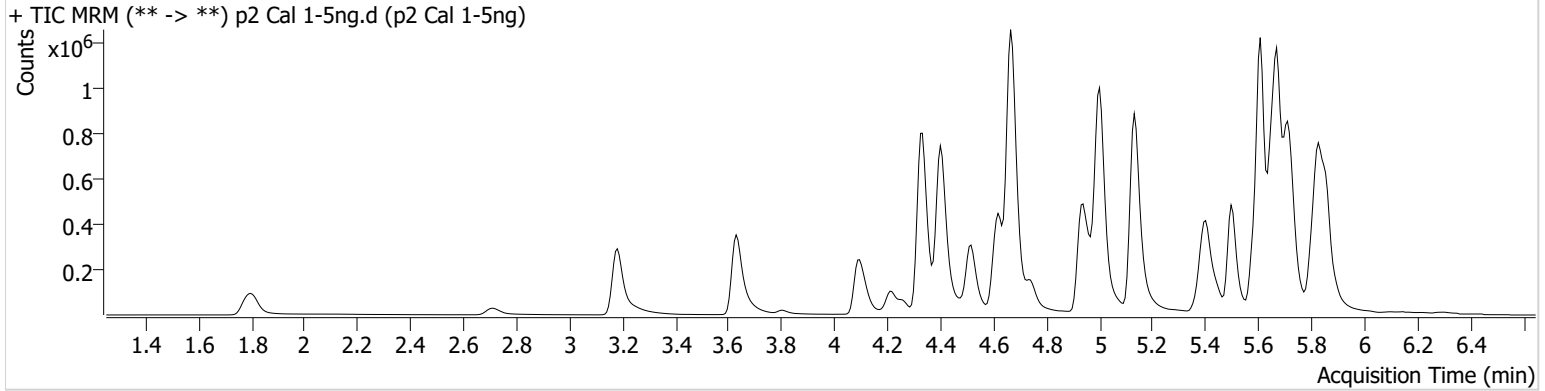
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2022\AM 27-28\061322 AM 27 28 P1 and P2 TS\QuantResults\AM 28 P2.batch\_evaluated  
compounds only.bin.batch.bin

**Calibration Last Update** 6/14/2022 1:05:22 PM

<b>Instrument</b>	Falco (069901)	<b>Data File</b>	p2 Cal 1-5ng.d
<b>Type</b>	Cal	<b>Sample</b>	p2 Cal 1-5ng
<b>Acq. Method</b>	AM 28 MDQ P2 102521.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P2-A7	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	6/13/2022 6:54:56 PM		
<b>Sample Info.</b>			

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Hydroxyzine	5.729	125227	1037.21	67.6	521.61	882452	4.7635 ng/ml
Norketamine	4.119	108747	3143.66	20.7	300.32	390868	4.7306 ng/ml
o-Desmethylvenlafaxine	4.096	207450	7384.25	29.2	724.94	390868	5.0582 ng/ml
Topiramate	4.993	3041	4325.16	44.4	154.93	80449	4.1735 ng/ml

TS



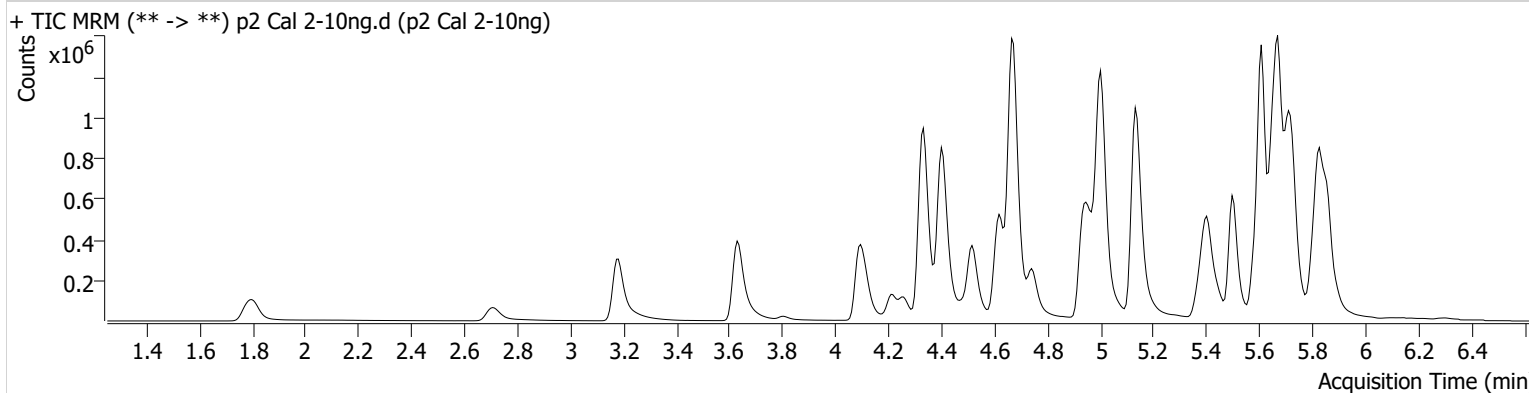
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2022\AM 27-28\061322 AM 27 28 P1 and P2 TS\QuantResults\AM 28 P2.batch\_evaluated  
compounds only.bin.batch.bin

**Calibration Last Update** 6/14/2022 1:05:22 PM

<b>Instrument</b>	Falco (069901)	<b>Data File</b>	p2 Cal 2-10ng.d
<b>Type</b>	Cal	<b>Sample</b>	p2 Cal 2-10ng
<b>Acq. Method</b>	AM 28 MDQ P2 102521.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P2-B7	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	6/13/2022 7:05:49 PM		
<b>Sample Info.</b>			

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Hydroxyzine	5.729	263076	17221.60	68.0	36677.07	915152	10.4129 ng/ml
Norketamine	4.119	229816	392.59	21.1	206.00	402711	10.7410 ng/ml
o-Desmethylvenlafaxine	4.096	453111	8981.95	28.9	2125.13	402711	10.3854 ng/ml
Topiramate	4.993	6486	5555.70	46.8	1627.34	78685	11.1537 ng/ml



TS



# AM #28 Multi-Drug Quant. Results

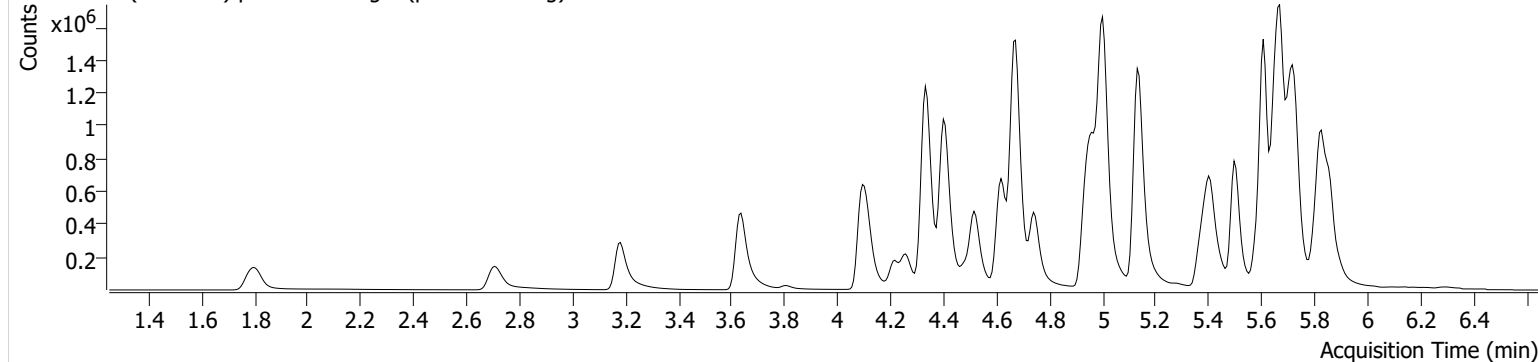
**Batch results** D:\MassHunter\Data\2022\AM 27-28\061322 AM 27 28 P1 and P2 TS\QuantResults\AM 28 P2.batch\_evaluated  
compounds only.bin.batch.bin

**Calibration Last Update** 6/14/2022 1:05:22 PM

<b>Instrument</b>	Falco (069901)	<b>Data File</b>	p2 Cal 3 -25ng.d
<b>Type</b>	Cal	<b>Sample</b>	p2 Cal 3 -25ng
<b>Acq. Method</b>	AM 28 MDQ P2 102521.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P2-C7	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	6/13/2022 7:16:33 PM		
<b>Sample Info.</b>			

## Sample Chromatogram

+ TIC MRM (\*\* -> \*\*) p2 Cal 3 -25ng.d (p2 Cal 3 -25ng)



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Hydroxyzine	5.729	563595	2431.75	68.6	2634.59	789133	26.9749 ng/ml
Norketamine	4.119	497418	10214.52	20.6	1495.89	369284	26.6956 ng/ml
o-Desmethylvenlafaxine	4.096	994690	5630.18	28.5	3104.10	369284	24.4419 ng/ml
Topiramate	4.986	13450	7407.07	41.8	6470.67	72130	27.4278 ng/ml

TS



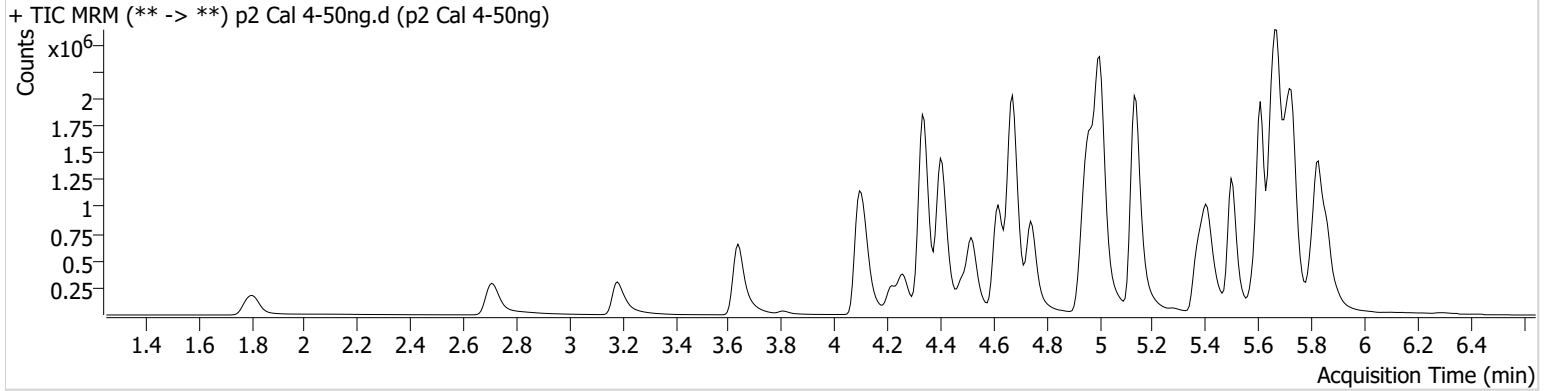
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2022\AM 27-28\061322 AM 27 28 P1 and P2 TS\QuantResults\AM 28 P2.batch\_evaluated  
compounds only.bin.batch.bin

**Calibration Last Update** 6/14/2022 1:05:22 PM

<b>Instrument</b>	Falco (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>	AM 28 MDQ P2 102521.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P2-D7	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	6/13/2022 7:27:16 PM		
<b>Sample Info.</b>			

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Hydroxyzine	5.729	1124014	4878.07	69.6	106778.35	781489	55.0786 ng/ml
Norketamine	4.119	950788	10077.16	20.9	3608.92	359106	53.4266 ng/ml
o-Desmethylvenlafaxine	4.096	1971380	17767.91	28.9	13957.05	359106	49.5012 ng/ml
Topiramate	4.993	20766	24351.89	47.3	8861.82	61116	51.4106 ng/ml

TS



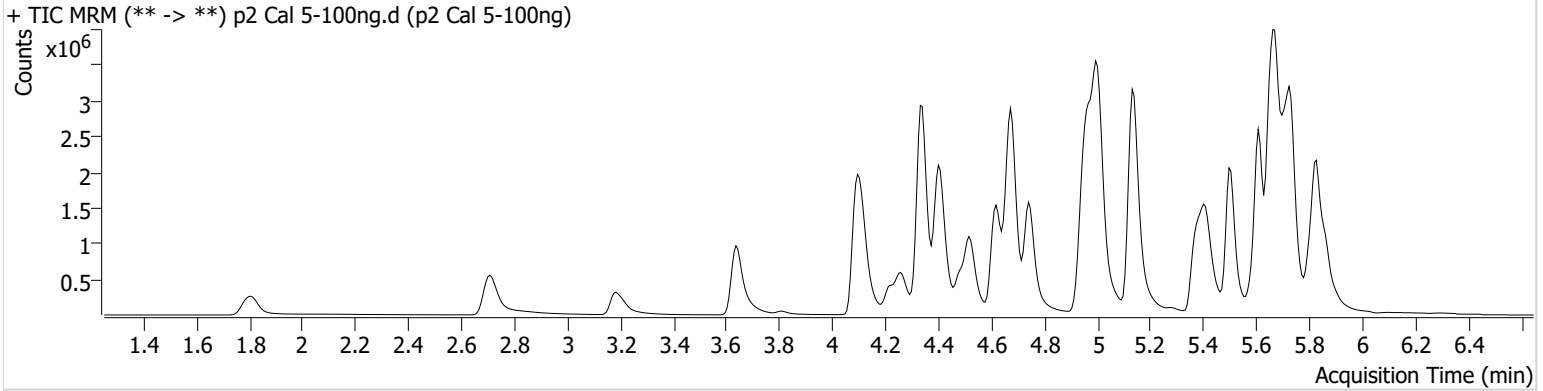
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2022\AM 27-28\061322 AM 27 28 P1 and P2 TS\QuantResults\AM 28 P2.batch\_evaluated  
compounds only.bin.batch.bin

**Calibration Last Update** 6/14/2022 1:05:22 PM

<b>Instrument</b>	Falco (069901)	<b>Data File</b>	p2 Cal 5-100ng.d
<b>Type</b>	Cal	<b>Sample</b>	p2 Cal 5-100ng
<b>Acq. Method</b>	AM 28 MDQ P2 102521.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P2-E7	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	6/13/2022 7:38:01 PM		
<b>Sample Info.</b>			

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Hydroxyzine	5.729	2065463	40633.24	74.0	10467.43	765454	103.9832 ng/ml
Norketamine	4.119	1677074	66410.09	20.9	1434.95	346647	98.4418 ng/ml
o-Desmethylvenlafaxine	4.090	3745616	11391.12	28.2	3518.30	346647	97.1406 ng/ml
Topiramate	4.986	30816	36709.75	44.7	53694.29	50029	94.6145 ng/ml

TS



# AM #28 Multi-Drug Quant. Results

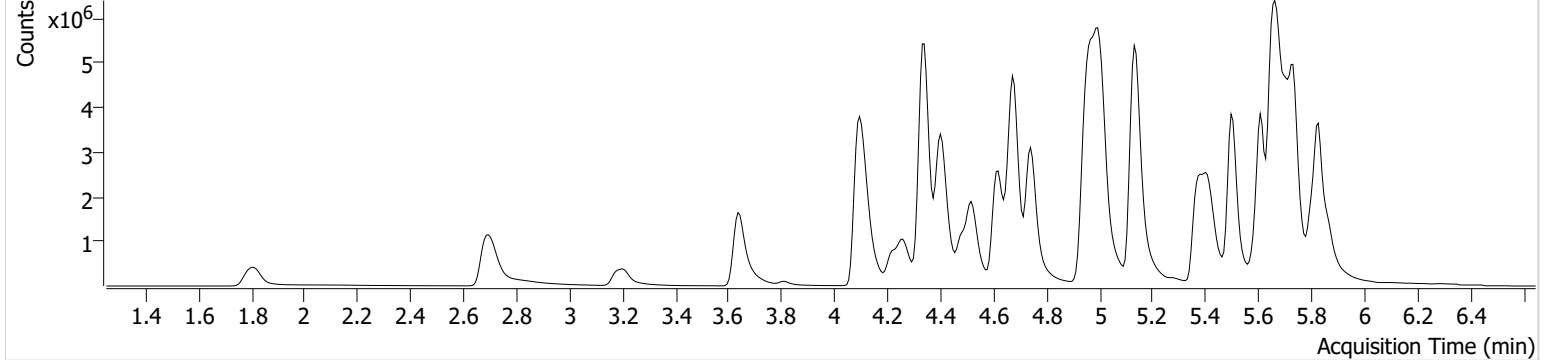
**Batch results** D:\MassHunter\Data\2022\AM 27-28\061322 AM 27 28 P1 and P2 TS\QuantResults\AM 28 P2.batch\_evaluated  
compounds only.bin.batch.bin

**Calibration Last Update** 6/14/2022 1:05:22 PM

<b>Instrument</b>	Falco (069901)	<b>Data File</b>	p2 Cal 6-250ng.d
<b>Type</b>	Cal	<b>Sample</b>	p2 Cal 6-250ng
<b>Acq. Method</b>	AM 28 MDQ P2 102521.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P2-F7	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	6/13/2022 7:48:43 PM		
<b>Sample Info.</b>			

## 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.
Hydroxyzine	5.729	4108421	77549.35	73.4	97570.99	630807	252.0345 ng/ml
Norketamine	4.119	3048091	557927.04	20.9	1635.32	290372	214.7485 ng/ml
o-Desmethylvenlafaxine	4.090	8127373	432843.08	27.5	30557.98	290372	251.1493 ng/ml
Topiramate	4.986	46488	31165.20	45.9	25696.36	28171	256.3990 ng/ml

TS

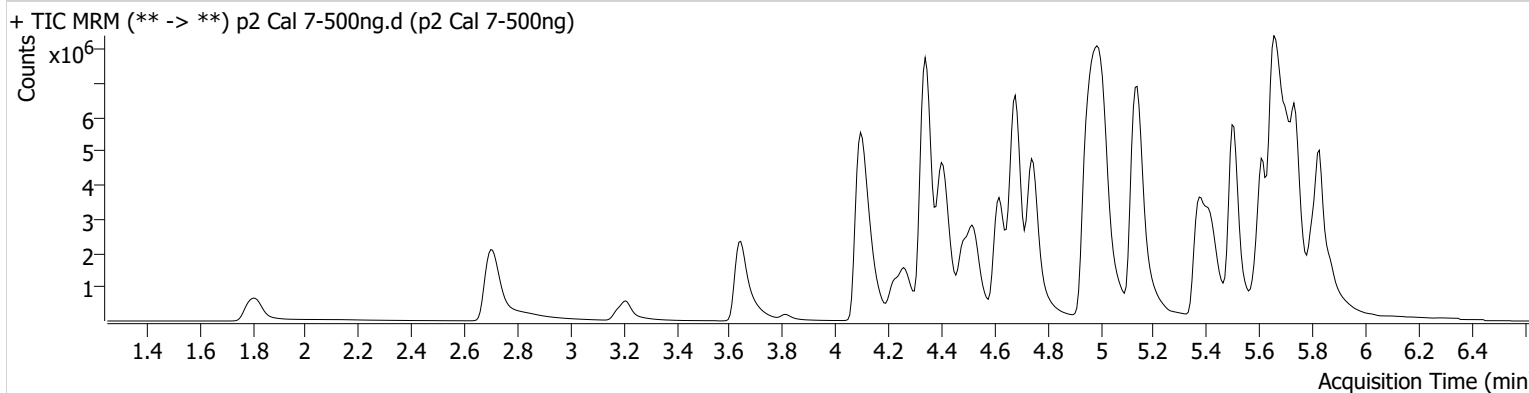


# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2022\AM 27-28\061322 AM 27 28 P1 and P2 TS\QuantResults\AM 28 P2.batch\_evaluated  
 compounds only.bin.batch.bin  
**Calibration Last Update** 6/14/2022 1:05:22 PM

<b>Instrument</b>	Falco (069901)	<b>Data File</b>	p2 Cal 7-500ng.d
<b>Type</b>	Cal	<b>Sample</b>	p2 Cal 7-500ng
<b>Acq. Method</b>	AM 28 MDQ P2 102521.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P2-G7	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	6/13/2022 7:59:25 PM		
<b>Sample Info.</b>			

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Hydroxyzine	5.736	6009686	2137.09	76.1	284568.98	500765	465.0345 ng/ml
Norketamine	4.126	4356515	75108.95	20.9	8019.36	236187	378.0931 ng/ml
o-Desmethylvenlafaxine	4.096	13268735	172208.32	27.1	6426.00	236187	503.7874 ng/ml
Topiramate	4.993	45372	37814.34	44.2	∞	15436	458.0538 ng/ml

TS

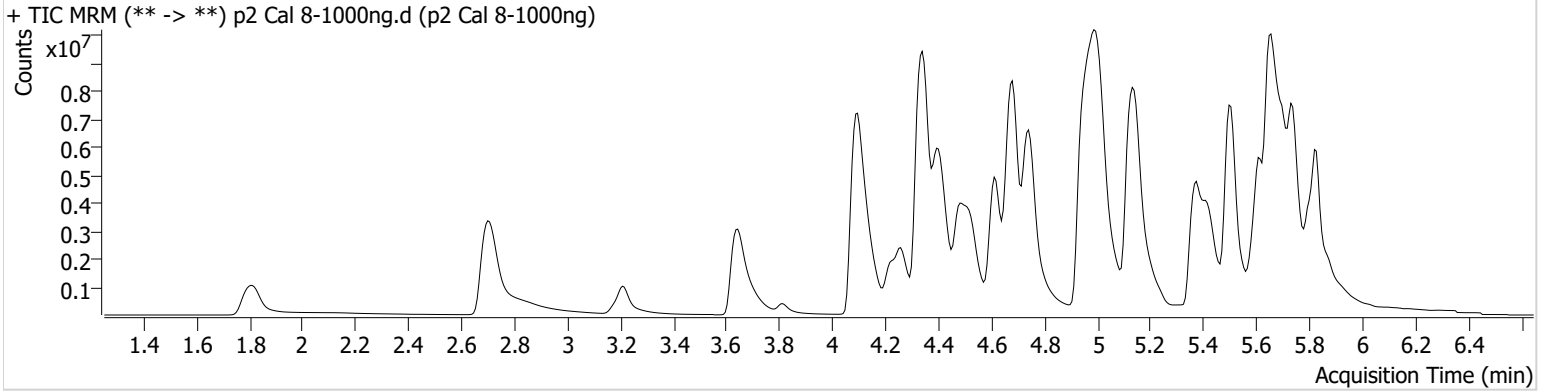


# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2022\AM 27-28\061322 AM 27 28 P1 and P2 TS\QuantResults\AM 28 P2.batch\_evaluated  
 compounds only.bin.batch.bin  
**Calibration Last Update** 6/14/2022 1:05:22 PM

<b>Instrument</b>	Falco (069901)	<b>Data File</b>	p2 Cal 8-1000ng.d
<b>Type</b>	Cal	<b>Sample</b>	p2 Cal 8-1000ng
<b>Acq. Method</b>	AM 28 MDQ P2 102521.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P2-H7	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	6/13/2022 8:10:07 PM		
<b>Sample Info.</b>			

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Hydroxyzine	5.736	8190005	72308.00	77.0	61989.00	374782	847.3959 ng/ml
Norketamine	4.126	5844944	2821.61	20.9	1348.22	182687	656.5510 ng/ml
o-Desmethylvenlafaxine	4.090	20348209	637654.31	27.2	33763.88	182687	998.5360 ng/ml
Topiramate	4.993	46222	121606.07	43.6	14803.52	6962	1036.7672 ng/ml