

**REVIEWED**

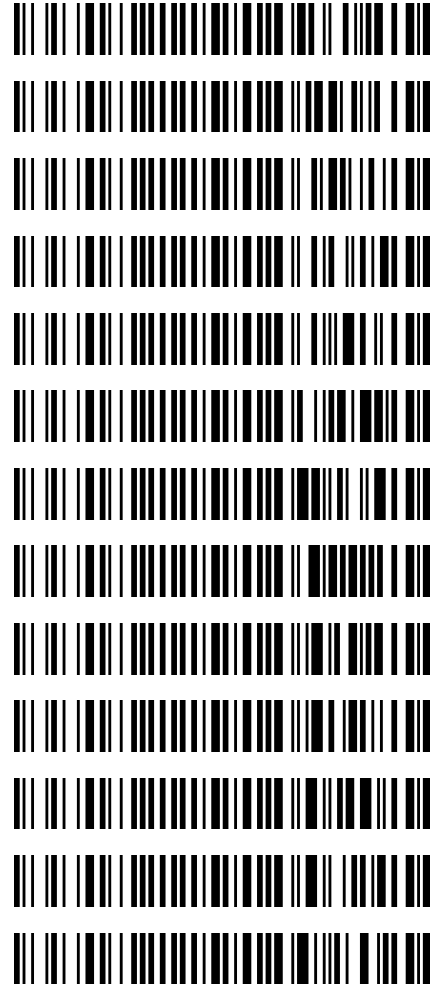
By Sarah Pickle at 3:32 pm, Feb 28, 2020

2/28/2020

*Bylee*

**Worklist: 4034**

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>
C2020-0186	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ
C2020-0193	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ
C2020-0225	1	AVK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ
C2020-0237	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ
C2020-0238	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ
C2020-0240	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ
C2020-0267	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ
C2020-0272	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ
C2020-0284	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ
C2020-0285	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ
C2020-0300	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ
C2020-0301	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ
C2020-0308	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ



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

*B. Wylie*

Extraction Date 2-27-2020

Analyst: Britany Wylie

Plate lot#: 190729 (part IDP-111)

Plate Expiration: 1/29/20

**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:** 20A52255 **Urine Blank lot:** 11420

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

**LCMS-QQQ ID:** 69679

## 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: 1926134** in wells of analytical (standards) plate.
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. *Shaker ID: 66759*
- 4. Pipette **250µL 0.5M 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: 66792*
- 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: 66819*
- 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: Samples in this batch were originally run in worklist 4024- Methamphetamine, Lamotrigine and Norhydrocodone could not be evaluated in batch 4024, the samples were re-extracted with this run to evaluate the following compounds only: Hydrocodone, Hydromorphone, Lamotrigine, Methamphetamine, Norhydrocodone and Sertraline

Curves Limited: 5-500: Lamotrigine and Norhydrocodone

BWylee

**Idaho State Police  
Forensic Services  
Toxicology Discipline**

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**Request for Departure from an Analytical Method**

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Date of Request

01/13/2020

Forensic Scientist

Celena Shrum

Analytical Methods

Toxicology AM #25, Toxicology AM #26/27, and AM #28

Deviation

The expiration dates listed for the current batch of PinPoint ToxBox extraction plates are as follows:

\*MDS (batch IDP-107-190725)- Expiration is 1/25/2020

\*THC (batch IDP-108-190716)- Expiration is 1/16/2020

\*MDQ P1 (batch IDP-111-190729)- Expiration is 1/29/2020

\*MDQ P2 (batch IDP-112-190730)- Expiration is 1/30/2020

I am issuing a deviation to allow for the use of the remaining plates of these batches. The controls will be used to evaluate if the plate is working as intended. In addition, at least one external control must be included for each run.

*Celena Shrum*

Date: 01/13/2020

Celena Shrum

Toxicology Discipline Lead

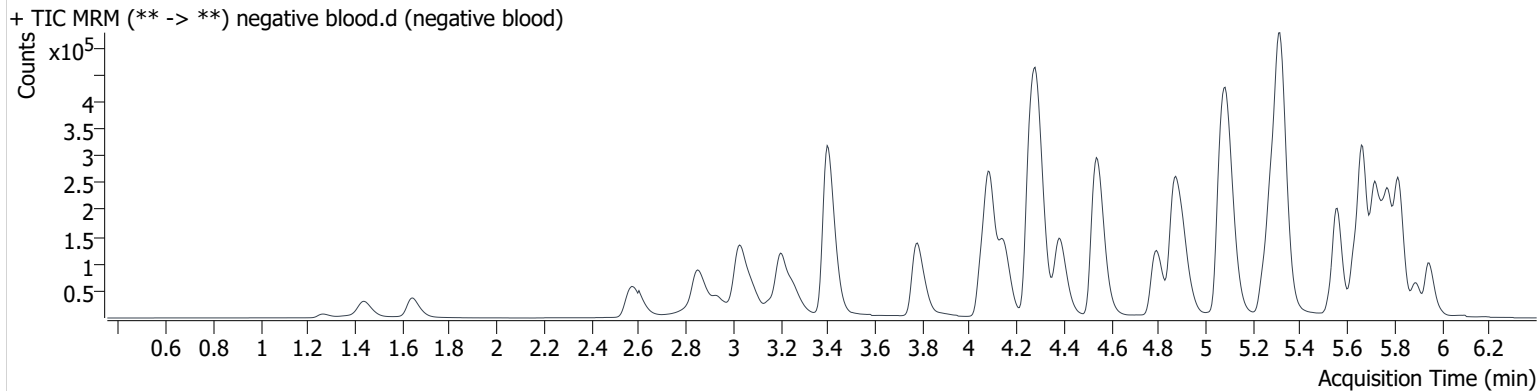
*BWylee*

# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020 Data\am 28 2-27-2020\QuantResults\mdq 2-27-20.batch.bin  
**Calibration Last Update** 2/28/2020 6:41:28 AM

<b>Instrument</b>	69679	<b>Data File</b>	negative blood.d
<b>Type</b>	Sample	<b>Sample</b>	negative blood
<b>Acq. Method</b>	mdq p1 cda 121818.m	<b>Operator</b>	Britany Wylie
<b>Sample Position</b>	P2-E2	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	2/27/2020 3:34:33 PM		
<b>Sample Info.</b>			

## Sample Chromatogram

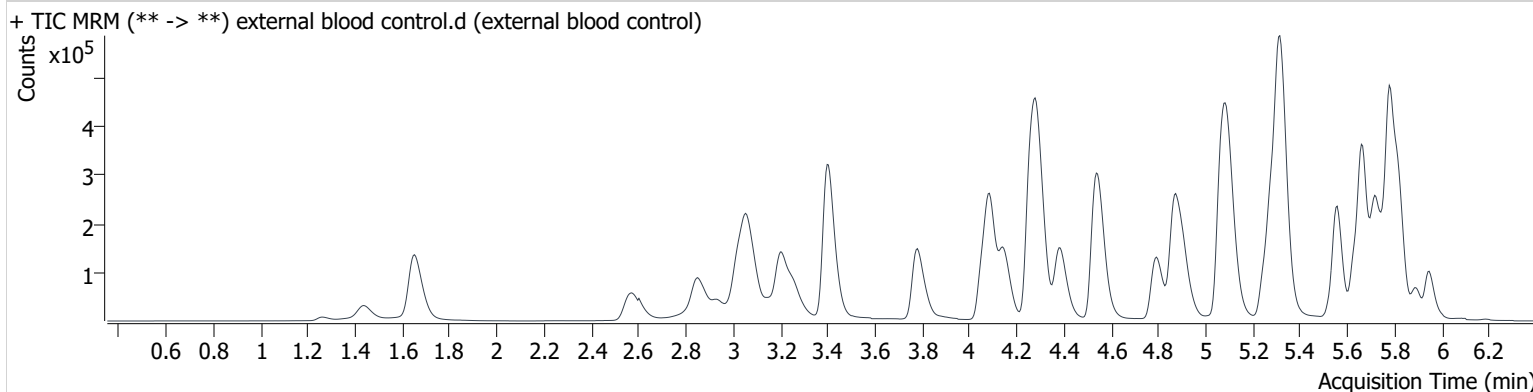


# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020 Data\am 28 2-27-2020\QuantResults\mdq 2-27-20.batch.bin  
**Calibration Last Update** 2/28/2020 6:41:28 AM

<b>Instrument</b>	69679	<b>Data File</b>	external blood control.d
<b>Type</b>	Sample	<b>Sample</b>	external blood control
<b>Acq. Method</b>	mdq p1 cda 121818.m	<b>Operator</b>	Britany Wylie
<b>Sample Position</b>	P2-F2	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	2/27/2020 3:45:23 PM		

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Hydrocodone	3.059	365195	3873.2	39.2	2140.7	247287	92.606 ng/ml
Hydromorphone	1.653	243762	37256.3	74.8	4354.2	140773	67.730 ng/ml
Sertraline	5.783	353915	28109.5	100.9	327533.0	201963	83.317 ng/ml

BWylee

Toxicology AM method 25/28 blood external prep information

working solution 10000 ng/ml in meoh Hydromorphone, Hydrocodone, Nortriptyline, Sertraline

Stock solution 1mg/ml 100 ul each in 9600ul meOH

ppd 5/20/19: Exp: 3/1/20 lot 52020 by baw

Drug	lot	expiration
Hydromorphone	FE04101502	6/1/2020
Hydrocodone	FE09091505	9/1/2020
nortriptyline	FN06191503	8/1/2020
sertraline	FN01081501	3/1/2020

AM 25/28 control 100 ul working solution (52020) in 9900 ul neg blood

ppd 5/20/19, exp 3/1/20 lot 52019 neg blood lot 19A207P3 by BAW

Concentration 100ng/ml hydrocodone, nortriptyline, sertraline, hydromorphone

Wylie

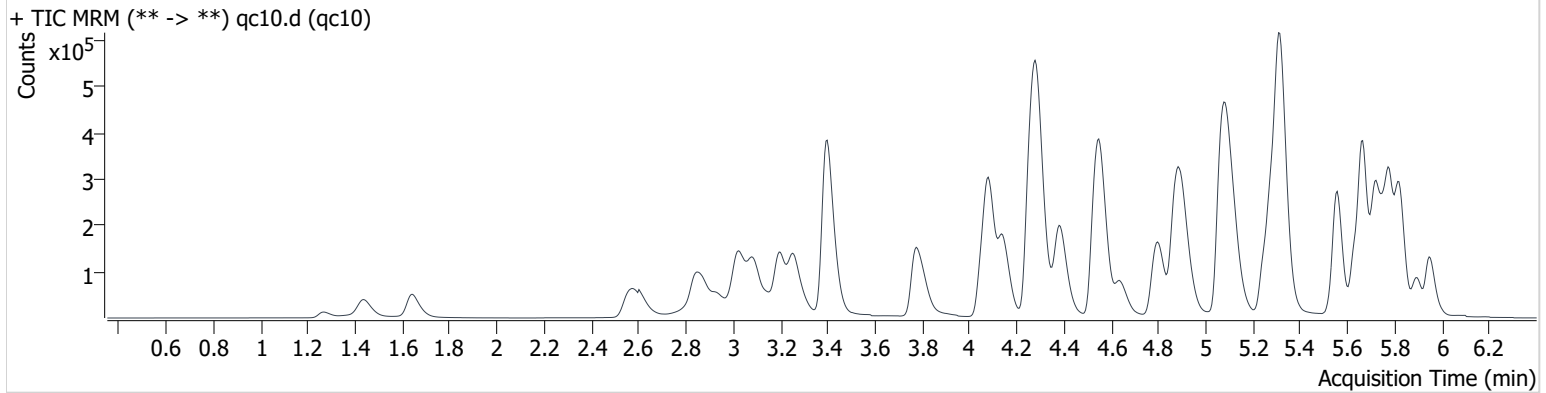
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020 Data\am 28 2-27-2020\QuantResults\mdq 2-27-20.batch.bin  
**Calibration Last Update** 2/28/2020 6:41:28 AM

<b>Instrument</b>	69679	<b>Data File</b>	qc10.d
<b>Type</b>	QC	<b>Sample</b>	qc10
<b>Acq. Method</b>	mdq p1 cda 121818.m	<b>Operator</b>	Britany Wylie
<b>Sample Position</b>	P2-A2	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	2/27/2020 8:26:16 PM		

**Sample Info.**

## Sample Chromatogram



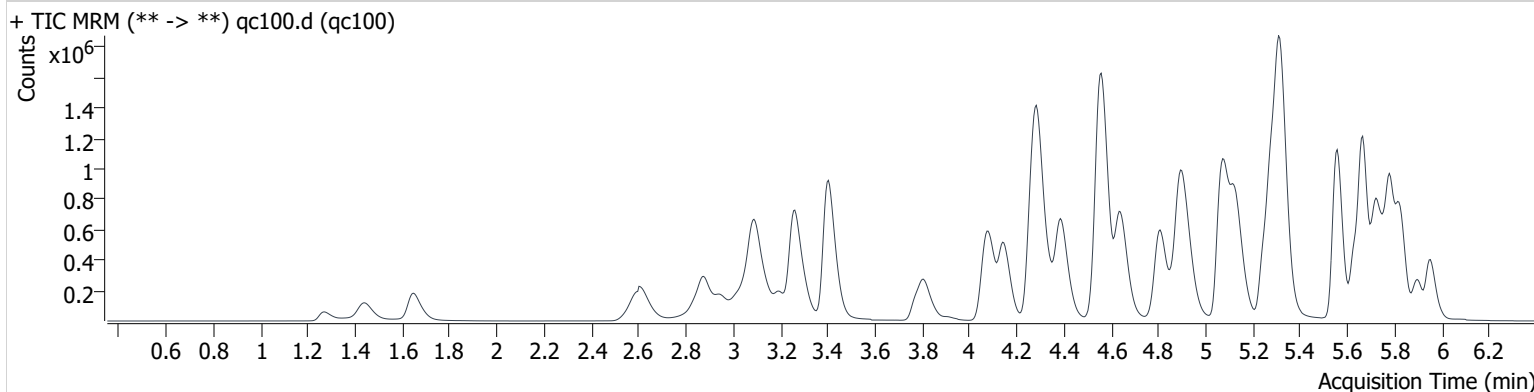
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Hydrocodone	3.054	44541	1264.0	37.6	∞	246607	11.073 ng/ml
Hydromorphone	1.648	36153	4327.7	70.5	4385.5	137874	10.068 ng/ml
Lamotrigine	4.315	9880	422.6	92.4	339.9	204966	12.220 ng/ml
Methamphetamine	3.264	214152	572.7	41.6	753.9	517859	10.107 ng/ml
Norhydrocodone	3.100	2324	18.5	44.3	28.1	81075	8.839 ng/ml
Sertraline	5.783	38153	2212.7	99.8	2018.0	149882	11.801 ng/ml

# AM #28 Multi-Drug Quant. Results *Wylie*

**Batch results** D:\MassHunter\Data\2020 Data\am 28 2-27-2020\QuantResults\mdq 2-27-20.batch.bin  
**Calibration Last Update** 2/28/2020 6:41:28 AM

<b>Instrument</b>	69679	<b>Data File</b>	qc100.d
<b>Type</b>	QC	<b>Sample</b>	qc100
<b>Acq. Method</b>	mdq p1 cda 121818.m	<b>Operator</b>	Britany Wylie
<b>Sample Position</b>	P2-B2	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	2/27/2020 8:37:05 PM		

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Hydrocodone	3.054	414801	1787.8	39.6	1412.0	249597	104.248 ng/ml
Hydromorphone	1.648	350249	15365.6	74.5	6271.8	124776	109.933 ng/ml
Lamotrigine	4.315	85629	1324.2	89.2	2489.8	217952	108.599 ng/ml
Methamphetamine	3.264	1512082	5666.6	41.1	988.7	550825	108.480 ng/ml
Norhydrocodone	3.105	27756	408.9	41.8	465.9	75594	94.871 ng/ml
Sertraline	5.783	295448	5478.4	101.2	244319.2	146327	96.052 ng/ml

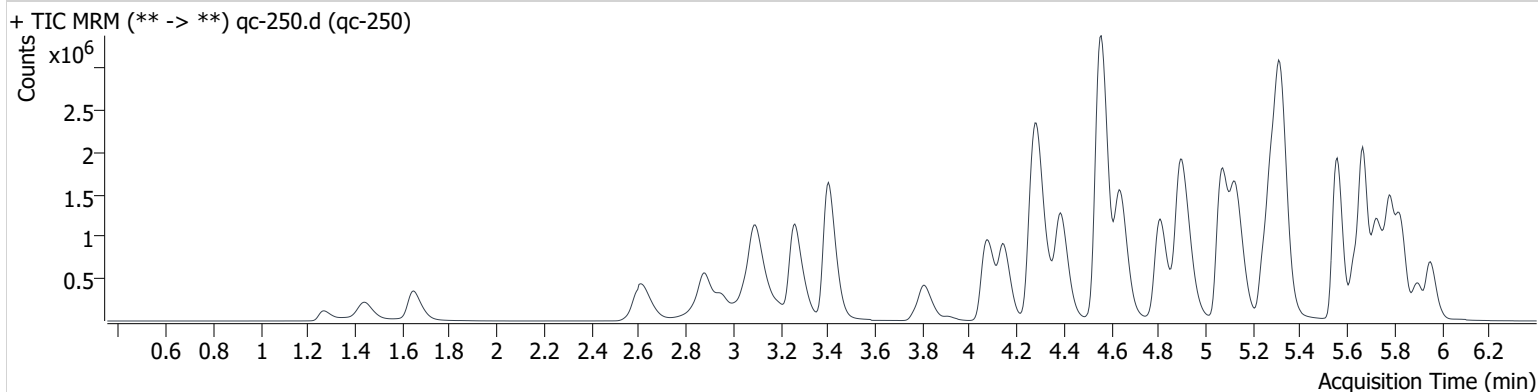


# AM #28 Multi-Drug Quant. Results *Wylie*

**Batch results** D:\MassHunter\Data\2020 Data\am 28 2-27-2020\QuantResults\mdq 2-27-20.batch.bin  
**Calibration Last Update** 2/28/2020 6:41:28 AM

<b>Instrument</b>	69679	<b>Data File</b>	qc-250.d
<b>Type</b>	QC	<b>Sample</b>	qc-250
<b>Acq. Method</b>	mdq p1 cda 121818.m	<b>Operator</b>	Britany Wylie
<b>Sample Position</b>	P2-C2	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	2/27/2020 8:47:54 PM		

## Sample Chromatogram



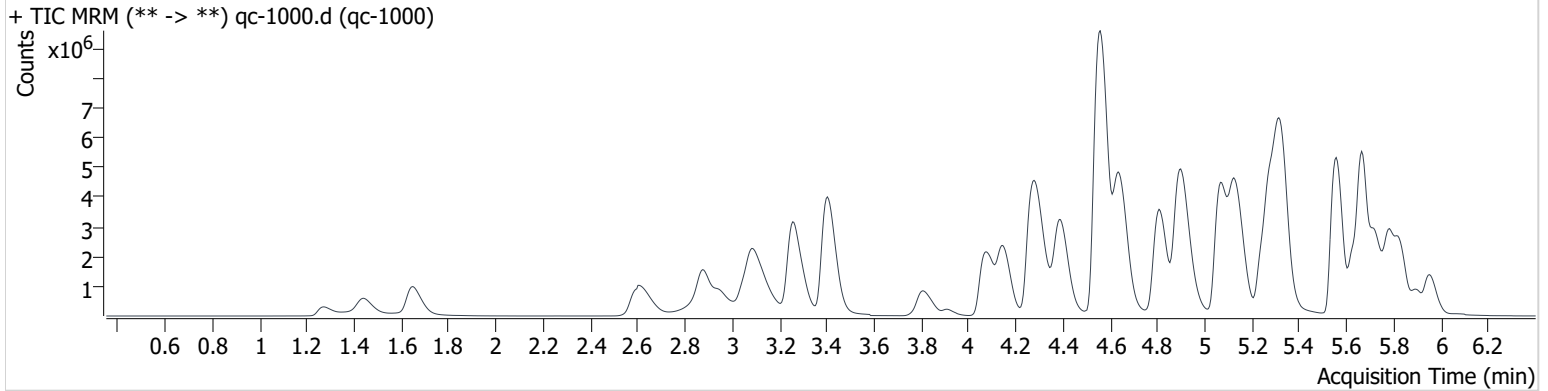
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Hydrocodone	3.059	933155	766.3	38.9	1706.1	225408	260.116 ng/ml
Hydromorphone	1.648	793436	55129.6	74.4	3215.9	125832	247.223 ng/ml
Lamotrigine	4.315	163435	3924.3	87.6	2491.1	159710	284.881 ng/ml
Methamphetamine	3.264	2460004	6283.9	40.8	778.2	384948	262.283 ng/ml
Norhydrocodone	3.105	69614	1581.4	42.1	151.5	67738	262.748 ng/ml
Sertraline	5.783	427350	14969.3	101.8	450449.5	83609	243.695 ng/ml

# AM #28 Multi-Drug Quant. Results *BW*

**Batch results** D:\MassHunter\Data\2020 Data\am 28 2-27-2020\QuantResults\mdq 2-27-20.batch.bin  
**Calibration Last Update** 2/28/2020 6:41:28 AM

<b>Instrument</b>	69679	<b>Data File</b>	qc-1000.d
<b>Type</b>	QC	<b>Sample</b>	qc-1000
<b>Acq. Method</b>	mdq p1 cda 121818.m	<b>Operator</b>	Britany Wylie
<b>Sample Position</b>	P2-D2	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	2/27/2020 8:58:42 PM		

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Hydrocodone	3.054	2894725	1132.1	40.4	2003.5	186513	975.958 ng/ml
Hydromorphone	1.648	2625326	7692134.8	74.3	30196.6	103950	990.881 ng/ml
Lamotrigine	<del>4.320</del>	<del>270344</del>	<del>3255.2</del>	<del>89.8</del>	<del>243.2</del>	<del>98658</del>	<del>764.954 ng/ml</del> *
Methamphetamine	3.259	7433200	33218.3	40.2	963.7	334601	929.949 ng/ml
<del>Norhydrocodone</del>	<del>3.105</del>	<del>254887</del>	<del>6835.2</del>	<del>41.7</del>	<del>3868.3</del>	<del>50342</del>	<del>1288.354 ng/ml</del> *
Sertraline	5.783	1350599	38686.6	101.6	1182250.0	66001	976.713 ng/ml

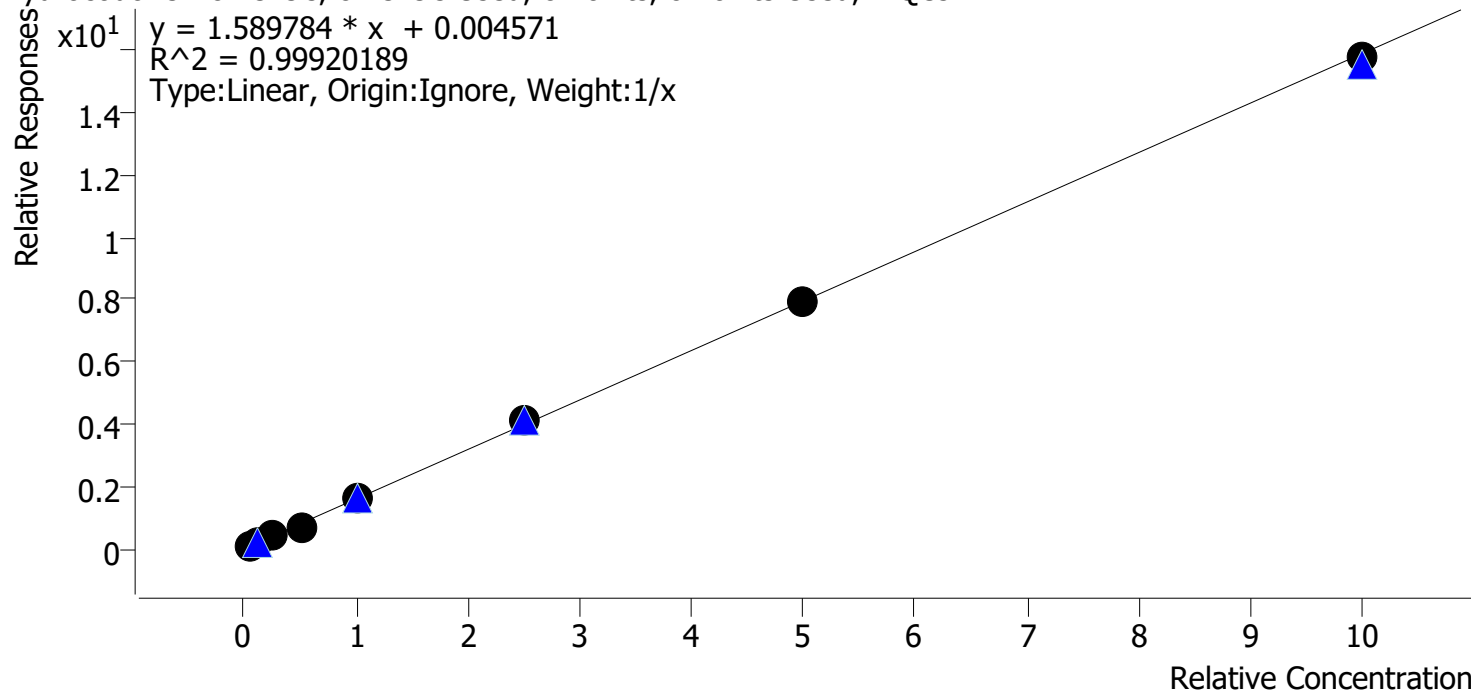
\* outside curve range

*BW*

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\lam 28 2-27-2020\QuantResults\mdq 2-27-20.batch.bin  
**Last Cal. Update** 2/28/2020 6:41 AM  
**Analyst Name** ISP\datastor  
**Analyte** Hydrocodone **Internal Standard** Hydrocodone-D6

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

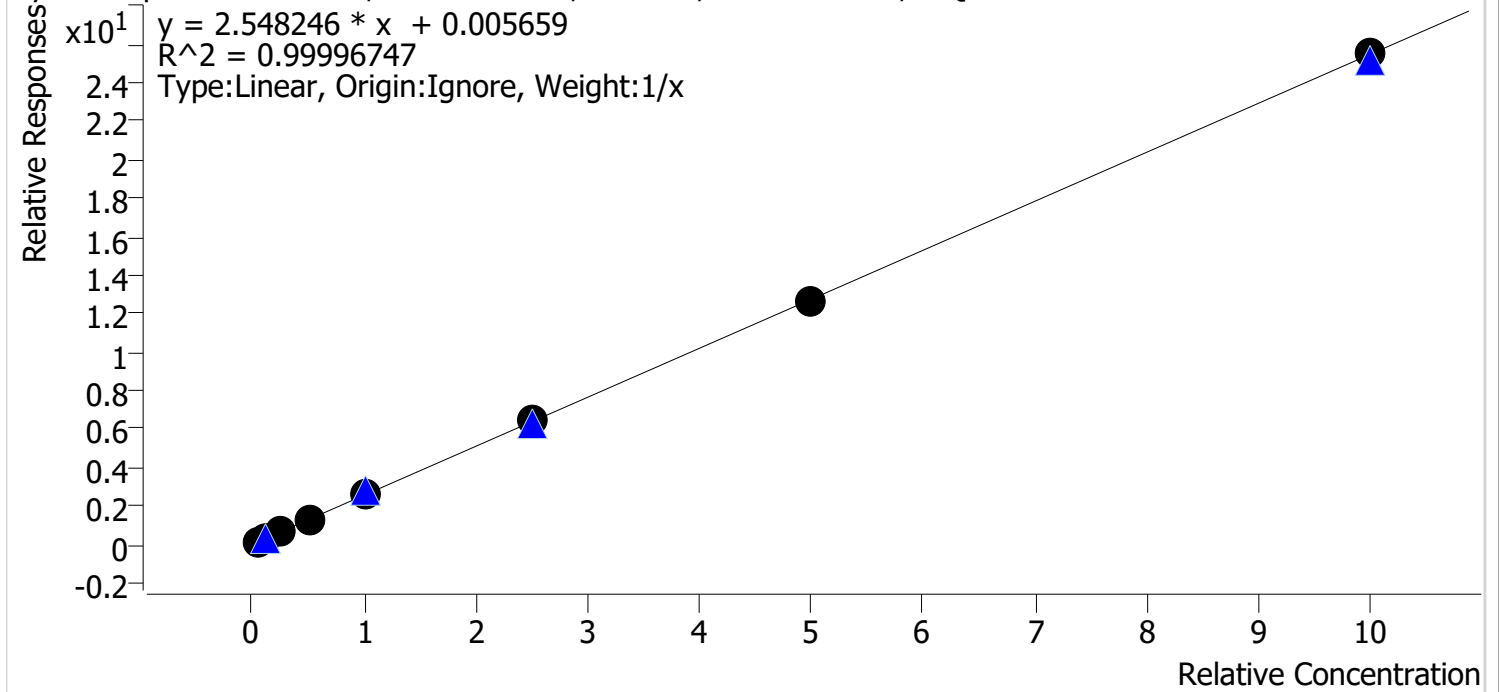


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.4	108.2
cal 2	2	✓	10.0	10.3	102.6
cal 3	3	✓	25.0	23.1	92.4
cal 4	4	✓	50.0	45.0	90.0
cal 5	5	✓	100.0	102.8	102.8
cal 6	6	✓	250.0	262.1	104.9
cal 7	7	✓	500.0	499.3	99.9
cal 8	8	✓	1000.0	992.0	99.2

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\am 28 2-27-2020\QuantResults\mdq 2-27-20.batch.bin  
**Last Cal. Update** 2/28/2020 6:41 AM  
**Analyst Name** ISP\datastor  
**Analyte** Hydromorphone **Internal Standard** Hydromorphone-D6

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

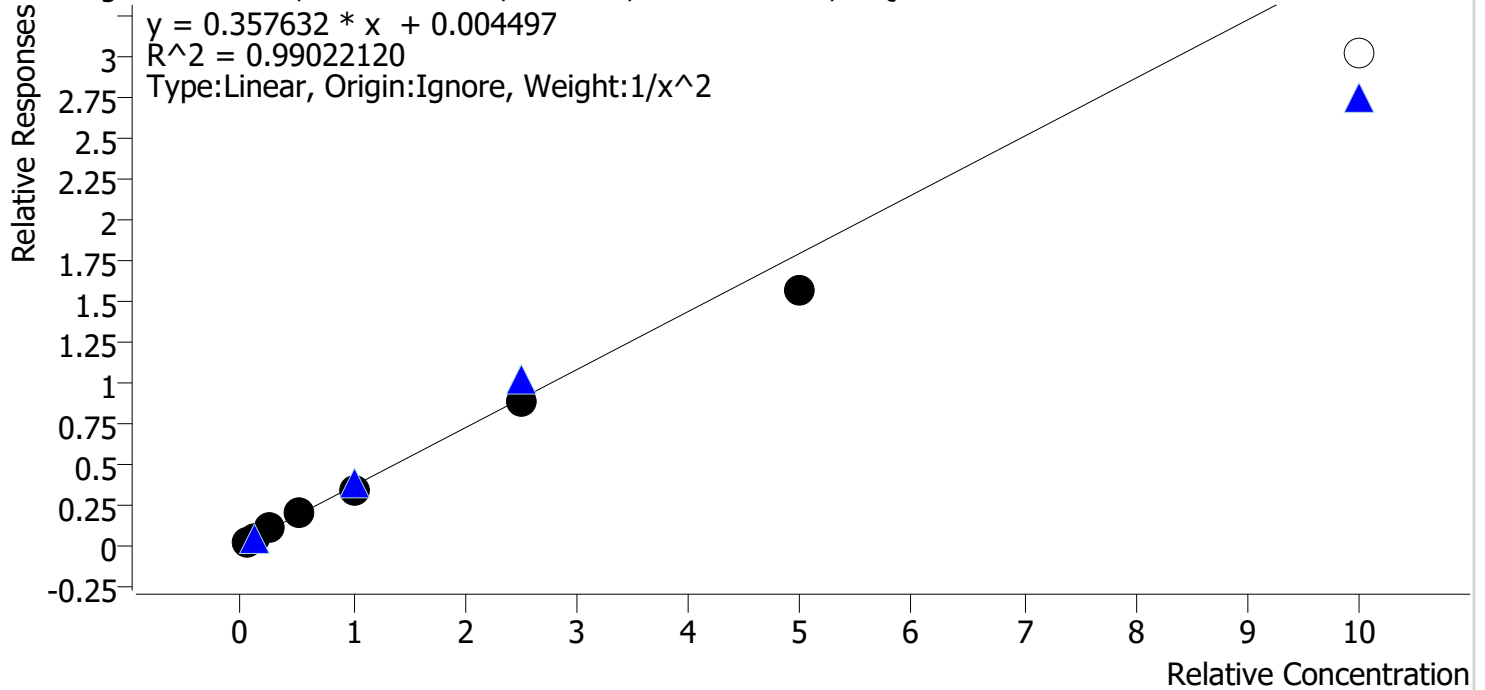


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	100.7
cal 2	2	✓	10.0	10.0	99.7
cal 3	3	✓	25.0	24.8	99.2
cal 4	4	✓	50.0	50.9	101.7
cal 5	5	✓	100.0	98.5	98.5
cal 6	6	✓	250.0	251.3	100.5
cal 7	7	✓	500.0	498.0	99.6
cal 8	8	✓	1000.0	1001.5	100.2

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\lam 28 2-27-2020\QuantResults\mdq 2-27-20.batch.bin  
**Last Cal. Update** 2/28/2020 6:41 AM  
**Analyst Name** ISP\datastor  
**Analyte** Lamotrigine **Internal Standard** **Dextromethorphan-D3**

Lamotrigine - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 4 QCs

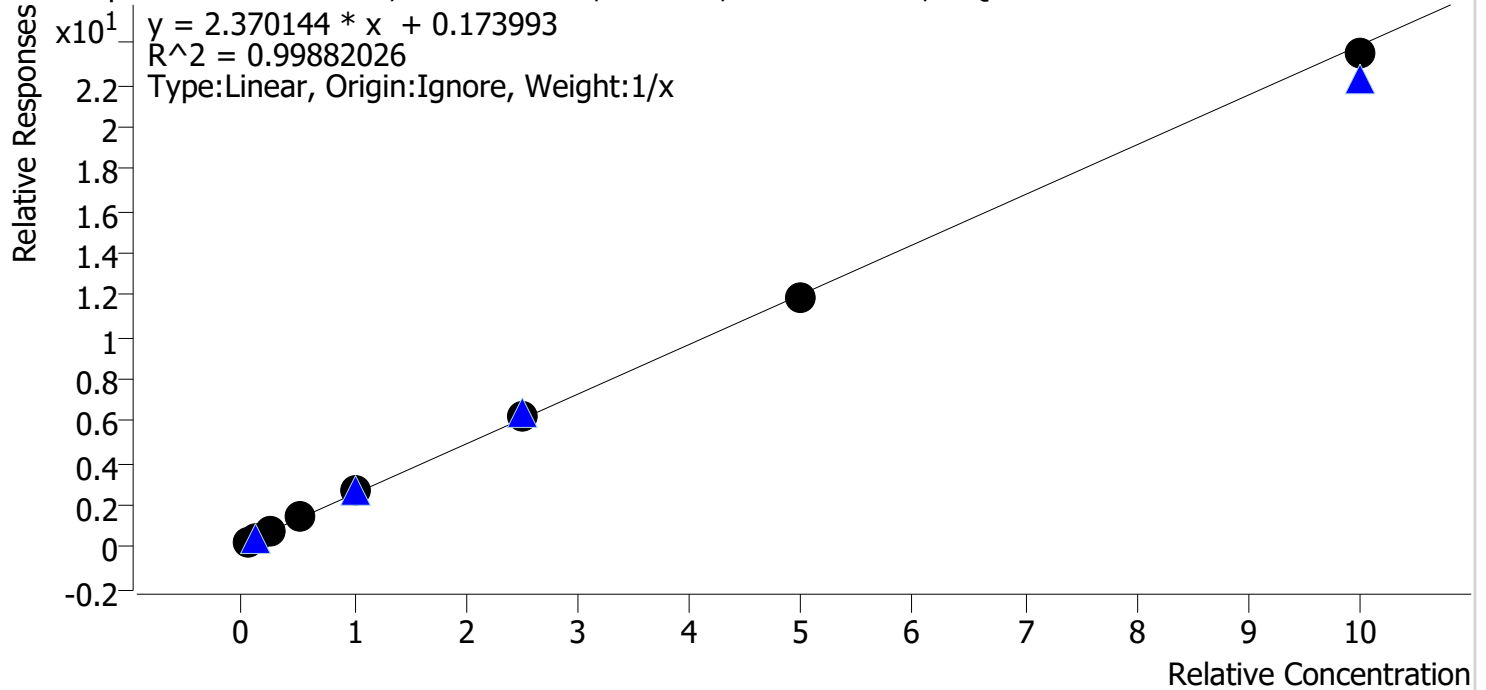


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.7	94.3
cal 2	2	✓	10.0	10.6	106.3
cal 3	3	✓	25.0	27.7	110.9
cal 4	4	✓	50.0	53.4	106.7
cal 5	5	✓	100.0	95.6	95.6
cal 6	6	✓	250.0	247.5	99.0
cal 7	7	✓	500.0	435.5	87.1
cal 8	8	✗	1000.0	842.4	84.2

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\lam 28 2-27-2020\QuantResults\mdq 2-27-20.batch.bin  
**Last Cal. Update** 2/28/2020 6:41 AM  
**Analyst Name** ISP\datastor  
**Analyte** Methamphetamine **Internal Standard** **Methamphetamine-D11**

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

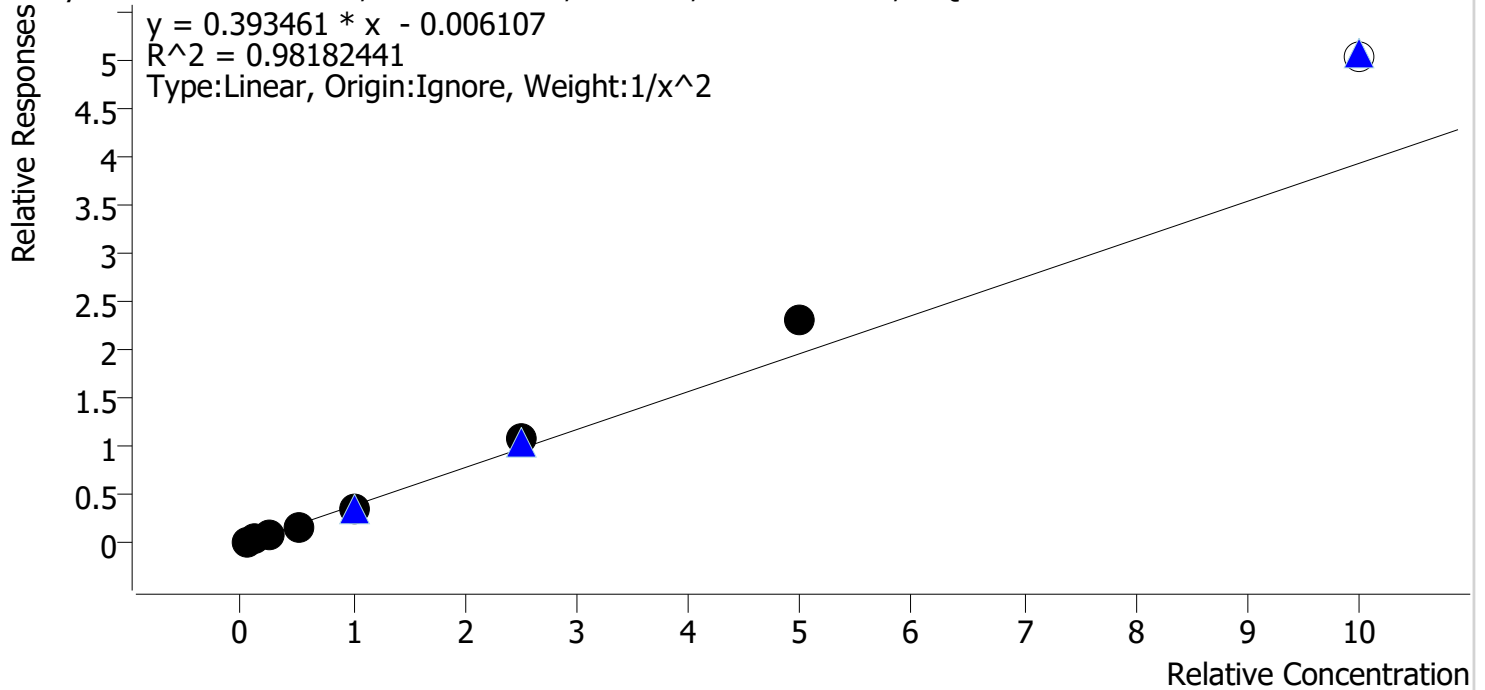


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.0	81.0
cal 2	2	✓	10.0	9.4	94.2
cal 3	3	✓	25.0	26.4	105.8
cal 4	4	✓	50.0	55.1	110.3
cal 5	5	✓	100.0	107.8	107.8
cal 6	6	✓	250.0	258.9	103.6
cal 7	7	✓	500.0	495.0	99.0
cal 8	8	✓	1000.0	983.2	98.3

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\am 28 2-27-2020\QuantResults\mdq 2-27-20.batch.bin  
**Last Cal. Update** 2/28/2020 6:41 AM  
**Analyst Name** ISP\datastor  
**Analyte** Norhydrocodone **Internal Standard** Norhydrocodone-D3

Norhydrocodone - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 4 QCs

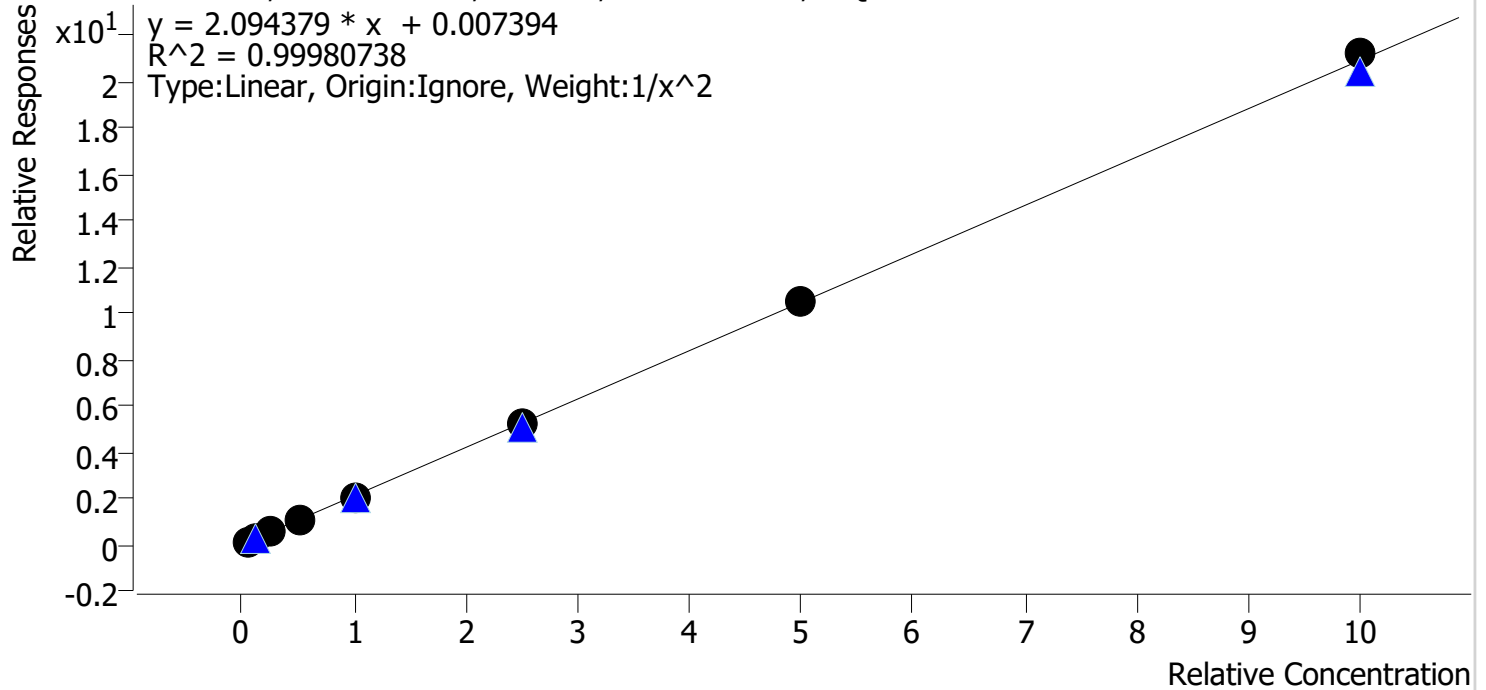


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.2	104.5
cal 2	2	✓	10.0	9.9	99.0
cal 3	3	✓	25.0	20.8	83.4
cal 4	4	✓	50.0	45.9	91.7
cal 5	5	✓	100.0	94.6	94.6
cal 6	6	✓	250.0	271.8	108.7
cal 7	7	✓	500.0	589.8	118.0
cal 8	8	x	1000.0	1281.4	128.1

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\am 28 2-27-2020\QuantResults\mdq 2-27-20.batch.bin  
**Last Cal. Update** 2/28/2020 6:41 AM  
**Analyst Name** ISP\datastor  
**Analyte** Sertraline **Internal Standard** Sertraline-D3

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	100.3
cal 2	2	✓	10.0	10.0	99.7
cal 3	3	✓	25.0	24.7	98.9
cal 4	4	✓	50.0	50.8	101.5
cal 5	5	✓	100.0	98.5	98.5
cal 6	6	✓	250.0	246.9	98.7
cal 7	7	✓	500.0	504.5	100.9
cal 8	8	✓	1000.0	1013.8	101.4



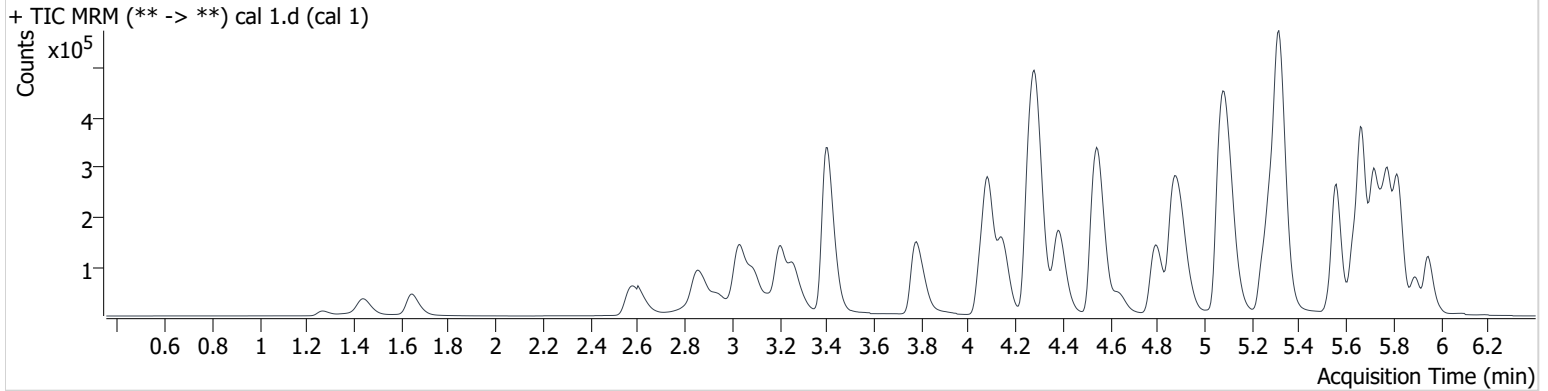
Wylie

# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020 Data\am 28 2-27-2020\QuantResults\mdq 2-27-20.batch.bin  
**Calibration Last Update** 2/28/2020 6:41:28 AM

<b>Instrument</b>	69679	<b>Data File</b>	cal 1.d
<b>Type</b>	Cal	<b>Sample</b>	cal 1
<b>Acq. Method</b>	mdq p1 cda 121818.m	<b>Operator</b>	Britany Wylie
<b>Sample Position</b>	P2-A1	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	2/27/2020 4:06:52 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



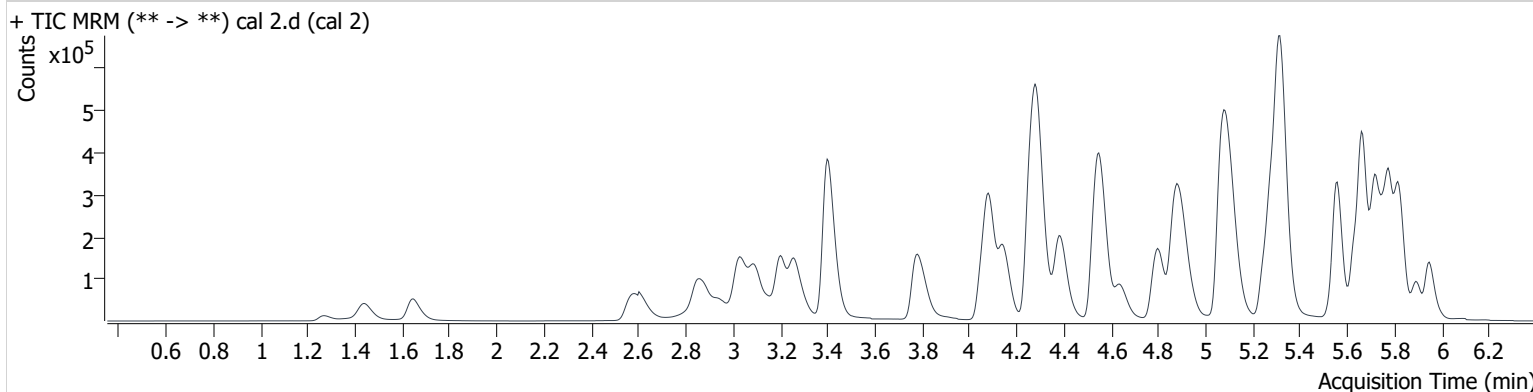
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Hydrocodone	3.064	22203	491.3	38.9	200.8	245091	5.411 ng/ml
Hydromorphone	1.653	18826	610.2	74.4	1844.5	140544	5.034 ng/ml
Lamotrigine	4.320	4867	261.2	96.4	1154.3	227803	4.717 ng/ml
Methamphetamine	3.264	140426	134.9	40.9	225.1	520130	4.050 ng/ml
Norhydrocodone	3.110	1161	45.0	44.8	45.0	80308	5.227 ng/ml
Sertraline	5.783	21600	820.9	100.4	25681.8	192120	5.015 ng/ml

# AM #28 Multi-Drug Quant. Results *BWylie*

**Batch results** D:\MassHunter\Data\2020 Data\am 28 2-27-2020\QuantResults\mdq 2-27-20.batch.bin  
**Calibration Last Update** 2/28/2020 6:41:28 AM

<b>Instrument</b>	69679	<b>Data File</b>	cal 2.d
<b>Type</b>	Cal	<b>Sample</b>	cal 2
<b>Acq. Method</b>	mdq p1 cda 121818.m	<b>Operator</b>	Britany Wylie
<b>Sample Position</b>	P2-B1	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	2/27/2020 4:17:41 PM		

**Sample Chromatogram**



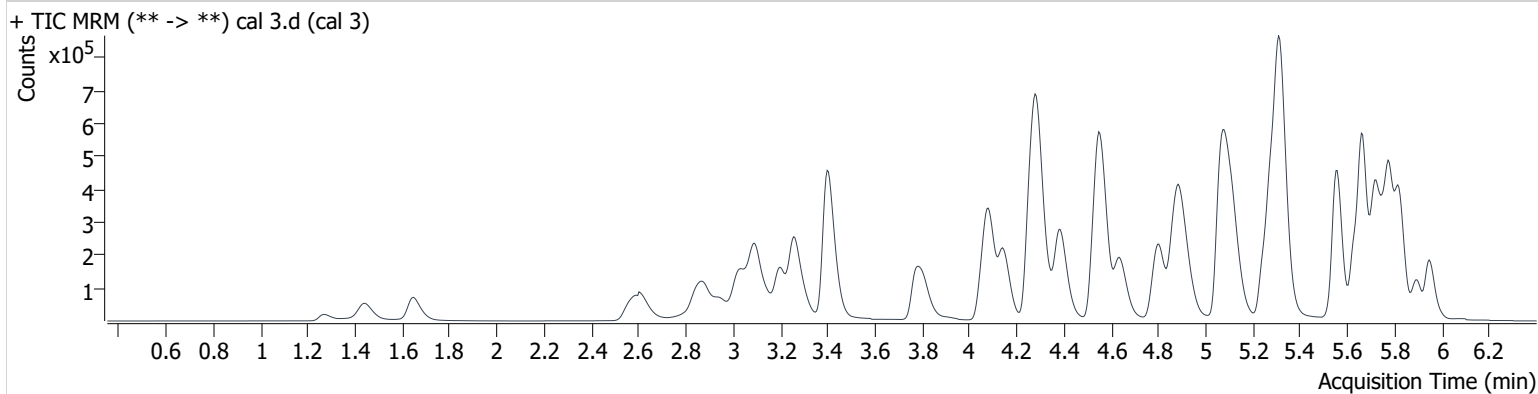
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Hydrocodone	3.059	42602	283.7	42.4	473.1	254132	10.257 ng/ml
Hydromorphone	1.653	37073	5629.4	71.8	4708.5	142802	9.966 ng/ml
Lamotrigine	4.320	10153	309.6	86.1	518.3	238727	10.634 ng/ml
Methamphetamine	3.264	223701	183.7	42.2	989.7	563051	9.422 ng/ml
Norhydrocodone	3.110	2682	174.5	39.8	10.2	81621	9.904 ng/ml
Sertraline	5.783	43775	1925.8	101.5	311.7	202497	9.969 ng/ml

# AM #28 Multi-Drug Quant. Results *BWylee*

**Batch results** D:\MassHunter\Data\2020 Data\am 28 2-27-2020\QuantResults\mdq 2-27-20.batch.bin  
**Calibration Last Update** 2/28/2020 6:41:28 AM

<b>Instrument</b>	69679	<b>Data File</b>	cal 3.d
<b>Type</b>	Cal	<b>Sample</b>	cal 3
<b>Acq. Method</b>	mdq p1 cda 121818.m	<b>Operator</b>	Britany Wylie
<b>Sample Position</b>	P2-C1	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	2/27/2020 4:28:29 PM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Hydrocodone	3.059	90529	1618.1	33.9	589.3	243390	23.109 ng/ml
Hydromorphone	1.653	86069	9981.6	74.9	2997.7	135016	24.794 ng/ml
Lamotrigine	4.315	23133	745.0	87.7	1079.3	223154	27.729 ng/ml
Methamphetamine	3.264	456453	238.4	41.6	1201.1	570038	26.444 ng/ml
Norhydrocodone	3.105	5843	72.4	45.6	142.1	76954	20.849 ng/ml
Sertraline	5.783	96421	2106.9	101.1	47996.7	183541	24.730 ng/ml

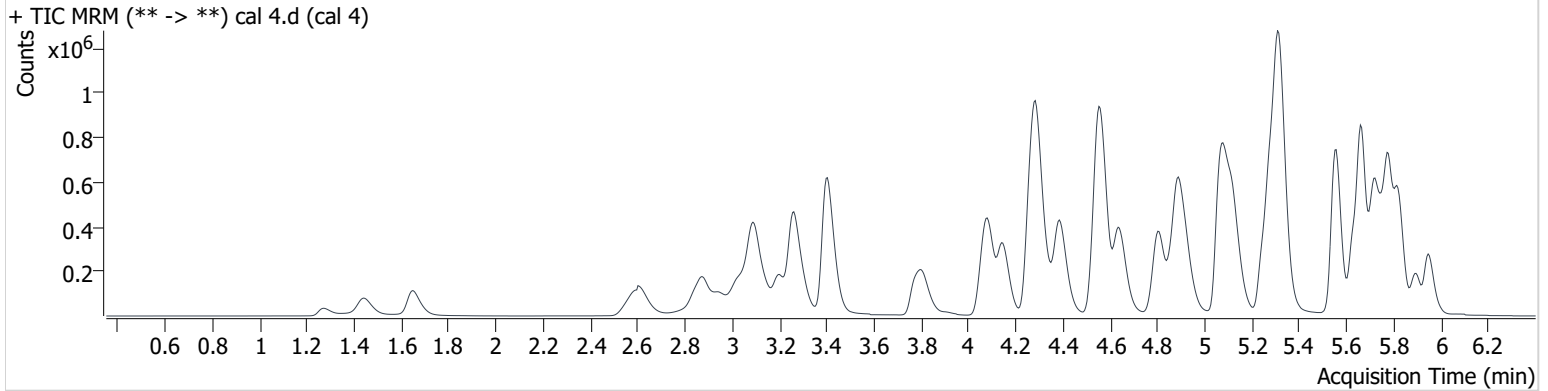
# AM #28 Multi-Drug Quant. Results

*Wylie*

**Batch results** D:\MassHunter\Data\2020 Data\am 28 2-27-2020\QuantResults\mdq 2-27-20.batch.bin  
**Calibration Last Update** 2/28/2020 6:41:28 AM

<b>Instrument</b>	69679	<b>Data File</b>	cal 4.d
<b>Type</b>	Cal	<b>Sample</b>	cal 4
<b>Acq. Method</b>	mdq p1 cda 121818.m	<b>Operator</b>	Britany Wylie
<b>Sample Position</b>	P2-D1	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	2/27/2020 4:39:17 PM		

## Sample Chromatogram



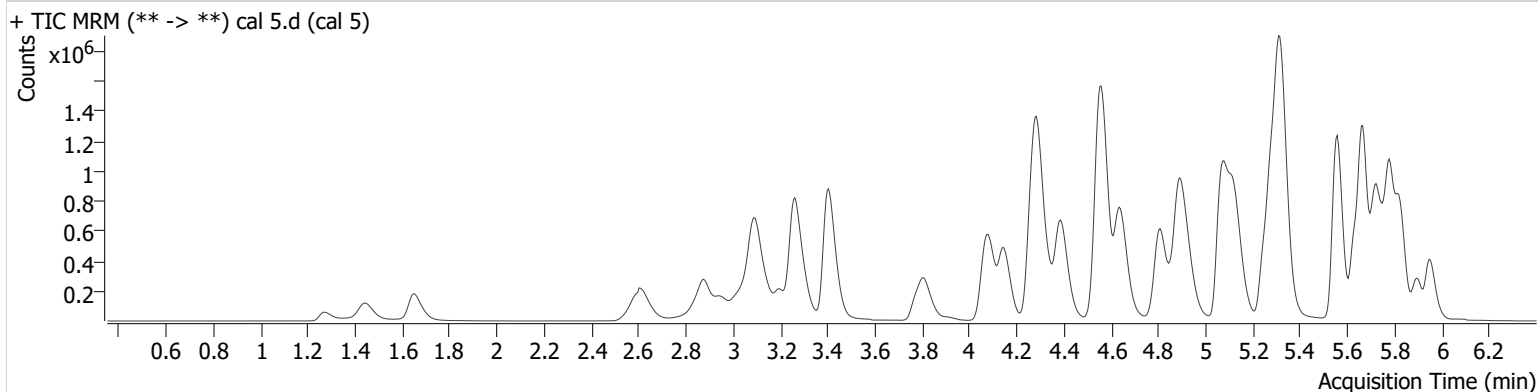
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Hydrocodone	3.059	181055	2347.5	38.0	∞	251358	45.021 ng/ml
Hydromorphone	1.653	181877	522712.2	75.1	10572.7	139731	50.857 ng/ml
Lamotrigine	4.320	46563	682.2	90.4	2252.3	238385	53.359 ng/ml
Methamphetamine	3.264	916757	3450.2	41.2	1171.4	619033	55.143 ng/ml
Norhydrocodone	3.105	13591	1124.7	41.0	886.3	77977	45.850 ng/ml
Sertraline	5.783	205080	9573.4	98.4	205441.8	191546	50.767 ng/ml

# AM #28 Multi-Drug Quant. Results *Wylie*

**Batch results** D:\MassHunter\Data\2020 Data\am 28 2-27-2020\QuantResults\mdq 2-27-20.batch.bin  
**Calibration Last Update** 2/28/2020 6:41:28 AM

<b>Instrument</b>	69679	<b>Data File</b>	cal 5.d
<b>Type</b>	Cal	<b>Sample</b>	cal 5
<b>Acq. Method</b>	mdq p1 cda 121818.m	<b>Operator</b>	Britany Wylie
<b>Sample Position</b>	P2-E1	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	2/27/2020 4:50:04 PM		

**Sample Chromatogram**



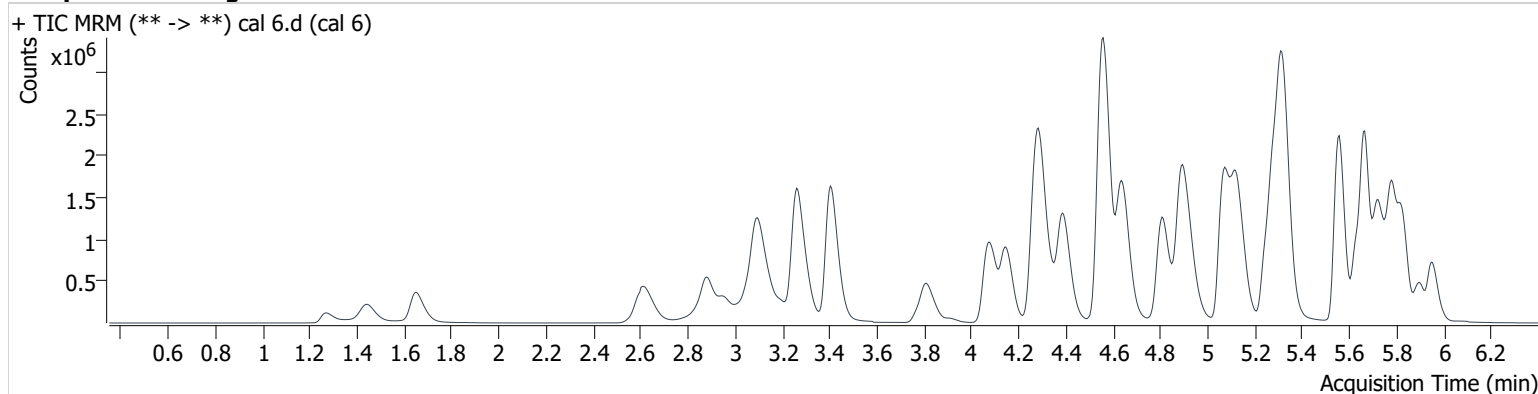
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Hydrocodone	3.059	400039	725.3	39.8	20.2	244018	102.832 ng/ml
Hydromorphone	1.653	347559	7731.7	74.8	12472.5	138206	98.465 ng/ml
Lamotrigine	4.320	82277	1722.0	89.8	2503.2	237598	95.570 ng/ml
Methamphetamine	3.264	1703973	3880.9	41.1	1926.1	624125	107.849 ng/ml
Norhydrocodone	3.105	27339	19.4	40.2	15.2	74645	94.637 ng/ml
Sertraline	5.783	390323	2330.8	100.5	57900.0	188468	98.532 ng/ml

# AM #28 Multi-Drug Quant. Results *BWylie*

**Batch results** D:\MassHunter\Data\2020 Data\am 28 2-27-2020\QuantResults\mdq 2-27-20.batch.bin  
**Calibration Last Update** 2/28/2020 6:41:28 AM

<b>Instrument</b>	69679	<b>Data File</b>	cal 6.d
<b>Type</b>	Cal	<b>Sample</b>	cal 6
<b>Acq. Method</b>	mdq p1 cda 121818.m	<b>Operator</b>	Britany Wylie
<b>Sample Position</b>	P2-F1	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	2/27/2020 5:00:52 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



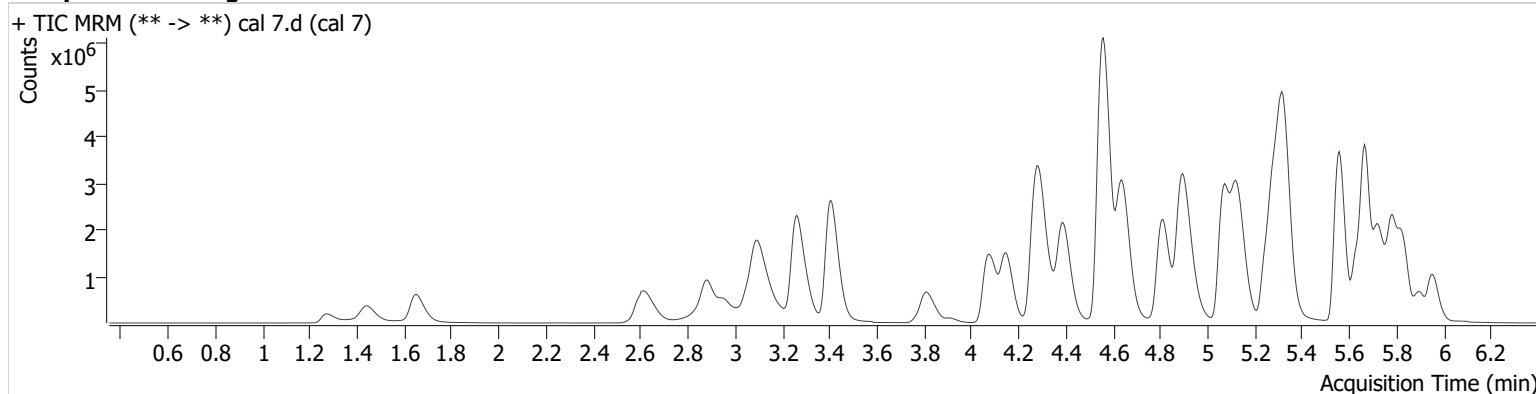
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Hydrocodone	3.059	938865	1075.0	37.9	1812.4	225042	262.135 ng/ml
Hydromorphone	1.653	821721	2297451.6	74.6	4487.5	128181	251.349 ng/ml
Lamotrigine	4.320	162678	2631.4	88.3	918.7	182861	247.499 ng/ml
Methamphetamine	3.264	3499303	8341.4	41.1	4853.8	554547	258.896 ng/ml
Norhydrocodone	3.110	71967	166.4	41.4	2244.7	67678	271.812 ng/ml
Sertraline	5.783	687963	69023.0	102.4	4243.7	132873	246.862 ng/ml

# AM #28 Multi-Drug Quant. Results *BWylie*

**Batch results** D:\MassHunter\Data\2020 Data\am 28 2-27-2020\QuantResults\mdq 2-27-20.batch.bin  
**Calibration Last Update** 2/28/2020 6:41:28 AM

<b>Instrument</b>	69679	<b>Data File</b>	cal 7.d
<b>Type</b>	Cal	<b>Sample</b>	cal 7
<b>Acq. Method</b>	mdq p1 cda 121818.m	<b>Operator</b>	Britany Wylie
<b>Sample Position</b>	P2-G1	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	2/27/2020 5:11:40 PM		

## Sample Chromatogram



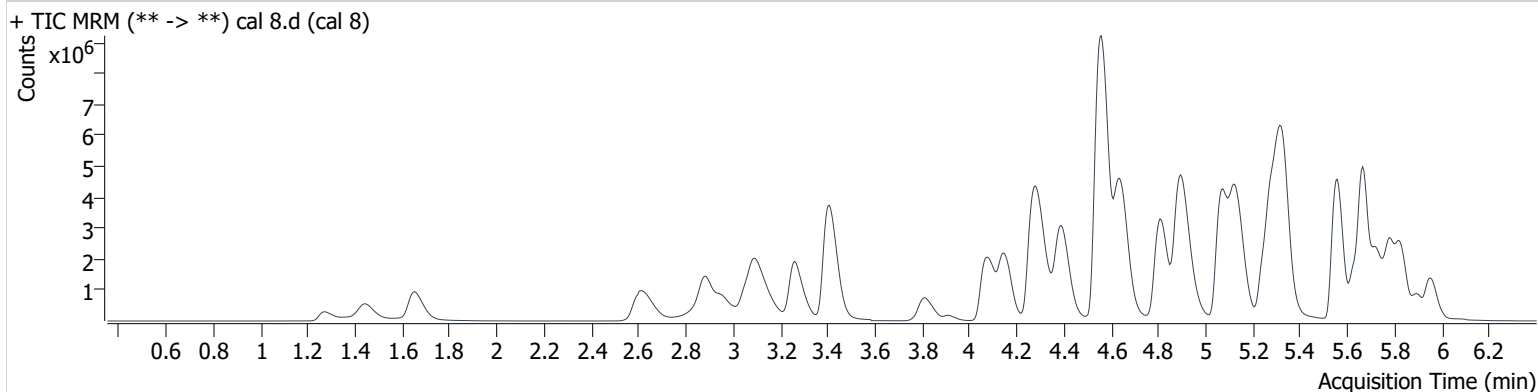
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Hydrocodone	3.059	1661993	1916.9	39.7	1717.3	209273	499.261 ng/ml
Hydromorphone	1.653	1490231	1795765.3	75.1	940807.6	117371	498.033 ng/ml
Lamotrigine	4.320	227761	2992.6	88.8	1692.2	145803	435.537 ng/ml
Methamphetamine	3.268	5198564	24058.8	40.9	7658.4	436650	494.973 ng/ml
Norhydrocodone	3.110	139554	378.7	41.6	569.7	60294	589.802 ng/ml
Sertraline	5.783	1038204	19906.0	101.2	13526.0	98193	504.478 ng/ml

# AM #28 Multi-Drug Quant. Results *Wylie*

**Batch results** D:\MassHunter\Data\2020 Data\am 28 2-27-2020\QuantResults\mdq 2-27-20.batch.bin  
**Calibration Last Update** 2/28/2020 6:41:28 AM

<b>Instrument</b>	69679	<b>Data File</b>	cal 8.d
<b>Type</b>	Cal	<b>Sample</b>	cal 8
<b>Acq. Method</b>	mdq p1 cda 121818.m	<b>Operator</b>	Britany Wylie
<b>Sample Position</b>	P2-H1	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	2/27/2020 5:33:09 PM		

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Hydrocodone	3.059	2789845	1312.3	38.8	6296.1	176854	991.974 ng/ml
Hydromorphone	1.653	2495078	23721.9	74.6	28717.8	97745	1001.501 ng/ml
Lamotrigine	4.320	269939	3821.9	89.1	544.0	89472	842.356 ng/ml
Methamphetamine	3.264	4228511	15184.2	40.4	13724.5	180107	983.224 ng/ml
Norhydrocodone	3.110	254613	1190.9	41.4	6785.7	50562	1281.380 ng/ml
Sertraline	5.783	736501	36134.0	101.1	42839.2	34673	1013.843 ng/ml