


REVIEWED
By Tamara Salazar at 12:26 pm, Jan 23, 2022

SC

1/20/2022

Worklist: 5531

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>
P2021-3964	1	UCK	AM 28 Urine Multi-Drug Confirmation Panel 2 by LC-QQ



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

01/19/2022 01/20/2022

Extraction Date: 01/20/2022 SC

Analyst: Sarah Collins

Plate lot#: IDP-122-2-210609

Retest Date: 12/09/2021

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: Lampire 20L20725

Blank Urine Lot: POC031319

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.

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 250 µL blood (**calibrated pipette**) or **250 ul hydrolyzed urine** in wells of analytical (standards) plate. **Pipette ID: #16**
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 4. Pipette **250 µL 0.5 M ammonium hydroxide** in wells of analytical plate.
- 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 6. Transfer **300 µL 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)**
- 8. Wait 5 minutes.
- 9. Add **900 µL ethyl acetate**.
- 10. Wait 5 minutes.
- 11. Apply positive pressure for approx. 10-15 seconds. **(12-15 PSI- Selector to the left)**.
- 12. Add **900 µL ethyl acetate**.
- 13. Wait 5 minutes.
- 14. Apply positive pressure for approx. 15 seconds. **(12-15 PSI- Selector to the left)**.
- 15. Remove plate containing eluate. If run contains urine, add 50 ul 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 **100 µL 20% LCMS MeOH in water** and heat seal plate with foil. Place in autosampler and run worklist.

Post-Analytic

- 1. Create batch and process data.
- 2. Make necessary changes to integration limits
- 3. Integration linear and R² 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: *Only acetyl fentanyl, acetyl norfentanyl, amitriptyline, flurazepam, and maprotiline were evaluated in this run.*

Curve range limited: flurazepam 5-100, maprotiline 5-250

Analytical Plate Map

	1	2	3	4	5	6	7	8	9	10	11	12
A				IS + Cal. 1	IS + QC_1	p2021-3964-1						
B				IS + Cal. 2	IS + QC_2							
C				IS + Cal. 3	IS + QC_3							
D				IS + Cal. 4	IS + QC_4							
E				IS + Cal. 5	negative blood							
F				IS + Cal. 6	external blood							
G				IS + Cal. 7	negative urine							
H				IS + Cal. 8	external urine							

All wells to contain 60 µl of Trapping Solution

SLE plate map

	1	2	3	4	5	6	7	8	9	10	11	12
A										IS + Cal. 1	IS + QC_1	p2021-3964-1
B										IS + Cal. 2	IS + QC_2	
C										IS + Cal. 3	IS + QC_3	
D										IS + Cal. 4	IS + QC_4	
E										IS + Cal. 5	negative blood	
F										IS + Cal. 6	external blood	
G										IS + Cal. 7	negative urine	
H										IS + Cal. 8	external urine	

All wells to contain 60 µl of Trapping Solution

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Idaho State Police Forensic Services

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

Methanol External Control Solution (Lot: 011922)

100 ul each 1 mg/mL stock solution in 9800 ul MeOH

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>	<i>Expiration Date</i>
Methanol (LCMS)	Fisher	215245	
Amitriptyline	Cerilliant	FN02202004	03/31/2025
Flurazepam	Cerilliant	FE08231902	11/30/2024
Prepared:	01/19/2022		
Prepared By:	Sarah Collins		
Expires:	01/19/2023		

Blood External Control Solution (Lot: WS011922)

100 ul of methanol external control solution was added to 9900ul of blood.

Approximately 100ng/mL of each compound.

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
Negative Blood	Lampire	20L20725
Methanol External Control Solution	-	011922
Prepared:	01/19/2022	
Prepared by:	Sarah Collins	
Expires:	01/19/2023	

Urine External Control Solution (Lot: WS011922)

100 ul of methanol external control solution was added to 9900ul of urine.

Approximately 100ng/mL of each compound.

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
Negative Urine		POC031319
Methanol External Control Solution	-	011922
Prepared:	01/19/2022	
Prepared by:	Sarah Collins	
Expires:	01/19/2023	

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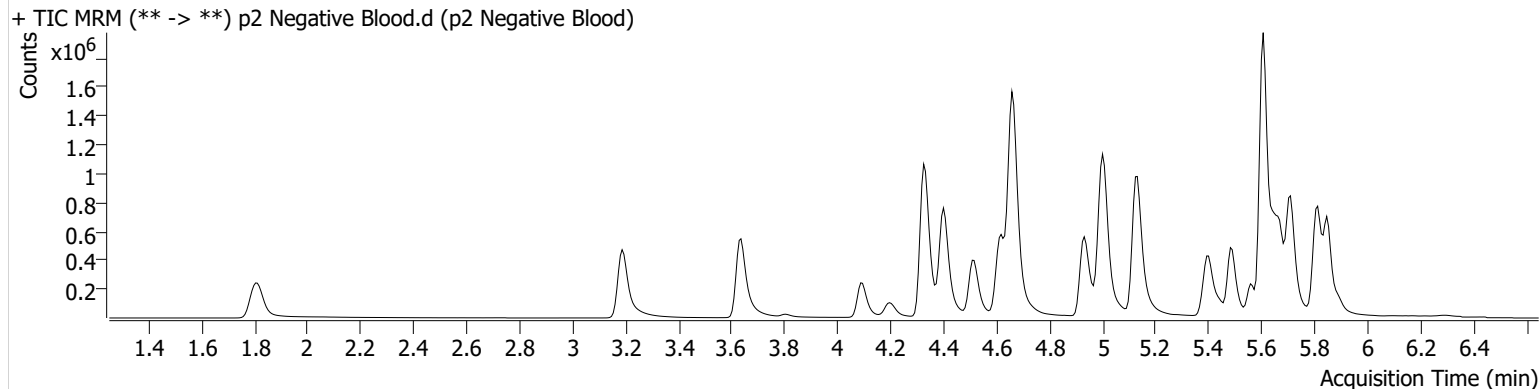


AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2022\AM 27-28\01192022 AM 28 TS\QuantResults\AM 28 P2 SC casework.batch.bin
Calibration Last Update 1/20/2022 1:23:01 PM

Instrument	Falco (069901)	Data File	p2 Negative Blood.d
Type	Sample	Sample	p2 Negative Blood
Acq. Method	AM 28 MDQ P2 102521.m	Operator	Sarah Collins
Sample Position	P6-E11	Comment	
Injection Volume	5		
Acq. Date-Time	1/20/2022 5:15:02 AM		
Sample Info.			

Sample Chromatogram



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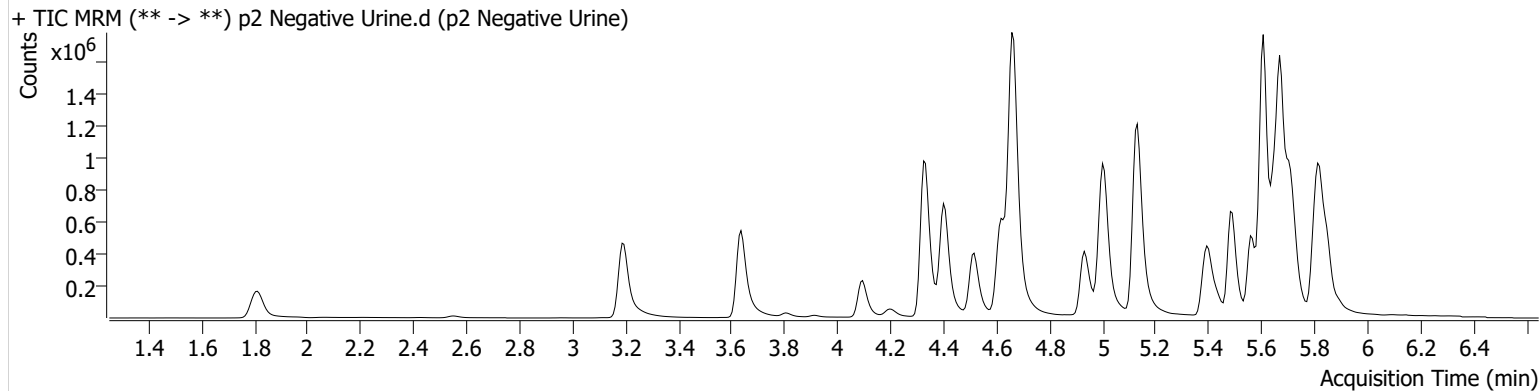


AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2022\AM 27-28\01192022 AM 28 TS\QuantResults\AM 28 P2 SC casework.batch.bin
Calibration Last Update 1/20/2022 1:23:01 PM

Instrument	Falco (069901)	Data File	p2 Negative Urine.d
Type	Sample	Sample	p2 Negative Urine
Acq. Method	AM 28 MDQ P2 102521.m	Operator	Sarah Collins
Sample Position	P6-G11	Comment	
Injection Volume	5		
Acq. Date-Time	1/20/2022 5:57:56 AM		
Sample Info.			

Sample Chromatogram



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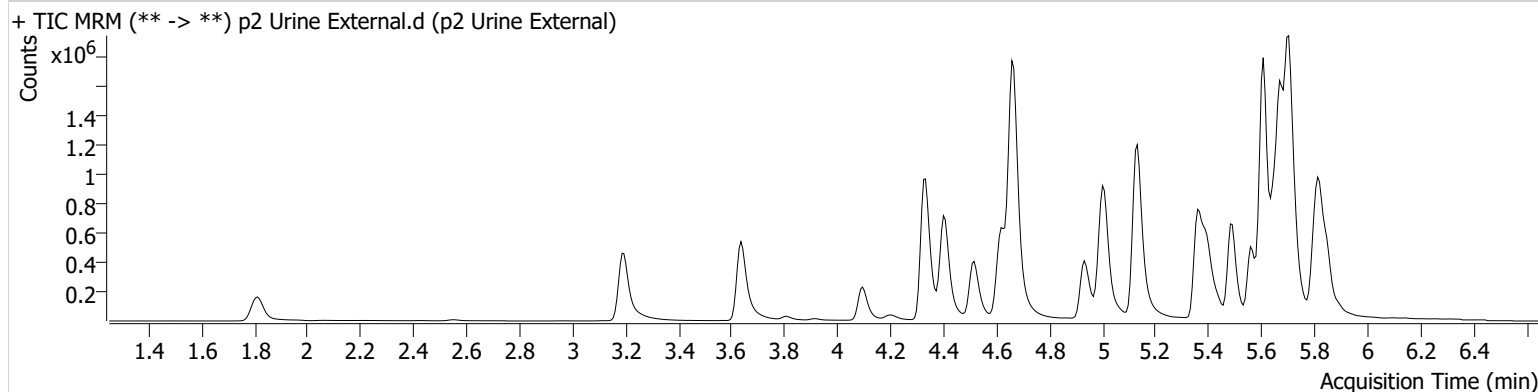


AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2022\AM 27-28\01192022 AM 28 TS\QuantResults\AM 28 P2 SC casework.batch.bin
Calibration Last Update 1/20/2022 1:23:01 PM

Instrument Falco (069901) **Data File** p2 Urine External.d
Type Sample **Sample** p2 Urine External
Acq. Method AM 28 MDQ P2 102521.m **Operator** Sarah Collins
Sample Position P6-H11 **Comment**
Injection Volume 5
Acq. Date-Time 1/20/2022 6:19:23 AM
Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Amitriptyline	5.706	541057	1611.94	112.1	2885.57	507843	42.7986 ng/ml
Flurazepam	5.358	1575433	436.05	12.8	1820.55	264152	74.4373 ng/ml
* Maprotiline	5.706	485714	1910.97			507843	37.7702 ng/ml

*Maprotiline negative due to missing qualifier peak

SC

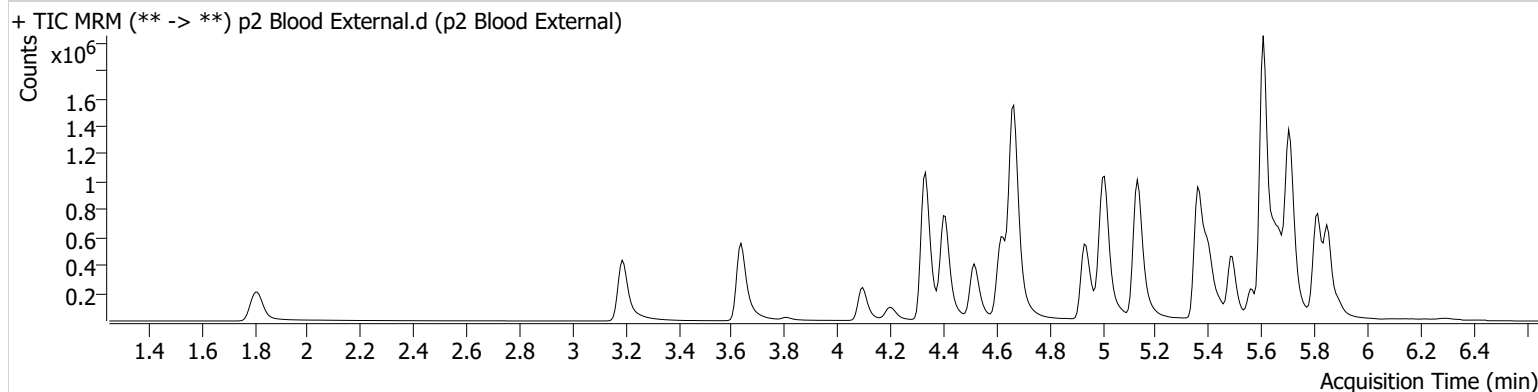


AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2022\AM 27-28\01192022 AM 28 TS\QuantResults\AM 28 P2 SC casework.batch.bin
Calibration Last Update 1/20/2022 1:23:01 PM

Instrument	Falco (069901)	Data File	p2 Blood External.d
Type	Sample	Sample	p2 Blood External
Acq. Method	AM 28 MDQ P2 102521.m	Operator	Sarah Collins
Sample Position	P6-F11	Comment	
Injection Volume	5		
Acq. Date-Time	1/20/2022 5:36:29 AM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Amitriptyline	5.706	319890	864.06	108.9	2729.04	194313	66.4662 ng/ml
Flurazepam	5.358	2106776	562.52	12.1	2069.06	452018	58.2053 ng/ml
* Maprotiline	5.706	279805	973.00			194313	57.4656 ng/ml

*Maprotiline negative due to missing qualifier peak

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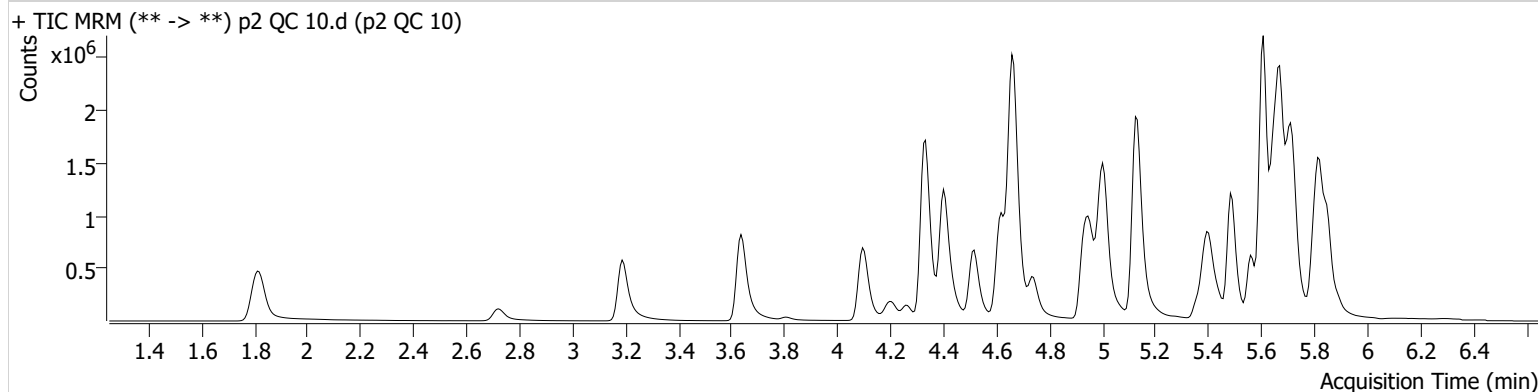


AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2022\AM 27-28\01192022 AM 28 TS\QuantResults\AM 28 P2 SC casework.batch.bin
Calibration Last Update 1/20/2022 1:23:01 PM

Instrument	Falco (069901)	Data File	p2 QC 10.d
Type	QC	Sample	p2 QC 10
Acq. Method	AM 28 MDQ P2 102521.m	Operator	Sarah Collins
Sample Position	P6-A11	Comment	
Injection Volume	5		
Acq. Date-Time	1/20/2022 3:59:51 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
acetyl-fentanyl	4.672	41796	363.62	79.8	470.82	2430765	0.9960 ng/ml
acetyl-norfentanyl	3.220	41988	585.12	37.4	449.01	1776092	1.0018 ng/ml
Amitriptyline	5.699	170839	1155.55	94.2	567.46	659646	9.9406 ng/ml
Flurazepam	5.358	398860	416.18	11.9	536.17	444339	11.3358 ng/ml
Maprotiline	5.699	177824	628.59	52.6	420.23	659646	9.7939 ng/ml

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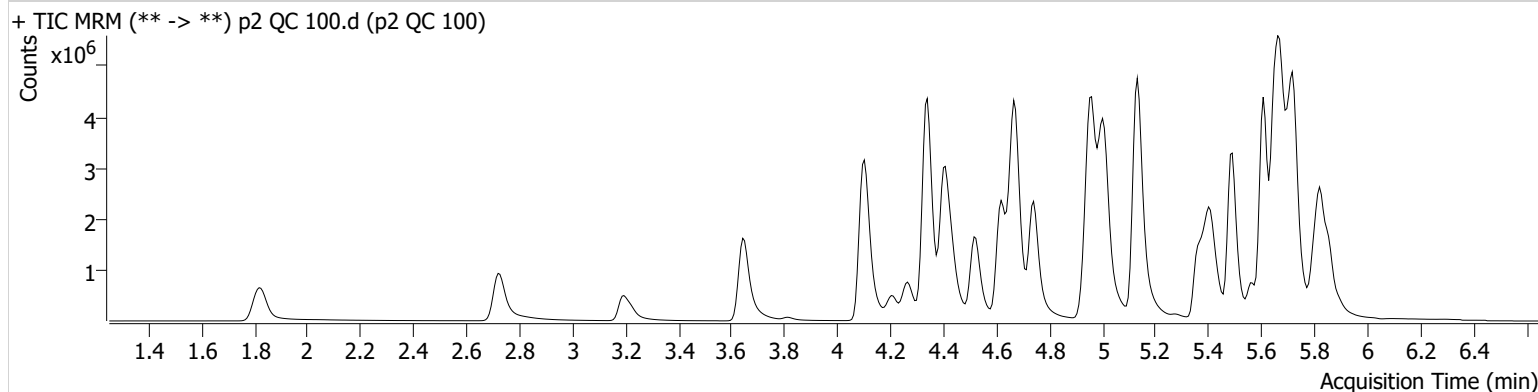


AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2022\AM 27-28\01192022 AM 28 TS\QuantResults\AM 28 P2 SC casework.batch.bin
Calibration Last Update 1/20/2022 1:23:01 PM

Instrument	Falco (069901)	Data File	p2 QC 100.d
Type	QC	Sample	p2 QC 100
Acq. Method	AM 28 MDQ P2 102521.m	Operator	Sarah Collins
Sample Position	P6-B11	Comment	
Injection Volume	5		
Acq. Date-Time	1/20/2022 7:02:23 AM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
acetyl-fentanyl	4.672	298119	15342.92	83.8	837.05	1757239	10.2971 ng/ml
acetyl-norfentanyl	3.220	336721	63377.86	37.1	2537.13	1453225	10.1222 ng/ml
Amitriptyline	5.699	1046266	771.02	98.2	2186.02	425553	99.5657 ng/ml
Flurazepam	5.358	2956946	631.37	12.8	582085.45	247939	148.6927 ng/ml
Maprotiline	5.699	1058247	2231.41	41.7	2690.00	425553	100.1025 ng/ml

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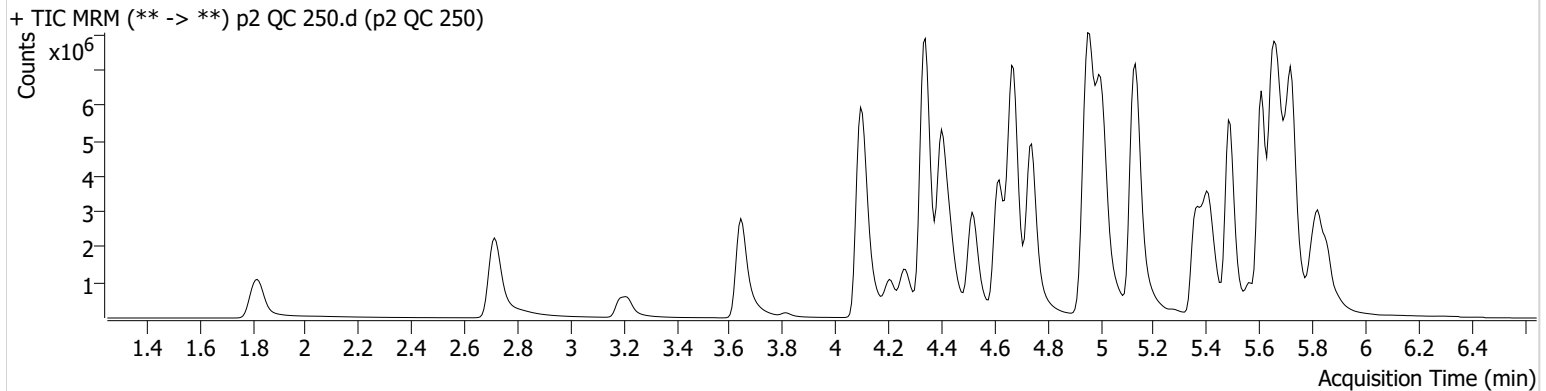


AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2022\AM 27-28\01192022 AM 28 TS\QuantResults\AM 28 P2 SC casework.batch.bin
Calibration Last Update 1/20/2022 1:55:33 PM

Instrument Falco (069901) **Data File** p2 QC 250.d
Type QC **Sample** p2 QC 250
Acq. Method AM 28 MDQ P2 102521.m **Operator** Sarah Collins
Sample Position P6-C11 **Comment**
Injection Volume 5
Acq. Date-Time 1/20/2022 4:21:18 AM
Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
acetyl-fentanyl	4.672	588753	3060.76	84.3	8144.06	1418104	25.2754 ng/ml
acetyl-norfentanyl	3.213	866752	132775.99	37.4	16548.16	1542030	24.6043 ng/ml
Amitriptyline	5.699	1493802	66.87	101.2	1981.97	252208	240.7207 ng/ml
* Flurazepam	5.358	6470128	139532.95	12.6	2247.19	179134	450.0101 ng/ml
Maprotiline	5.699	1484468	18608.55	38.9	2834.12	252208	238.5533 ng/ml

*OCR

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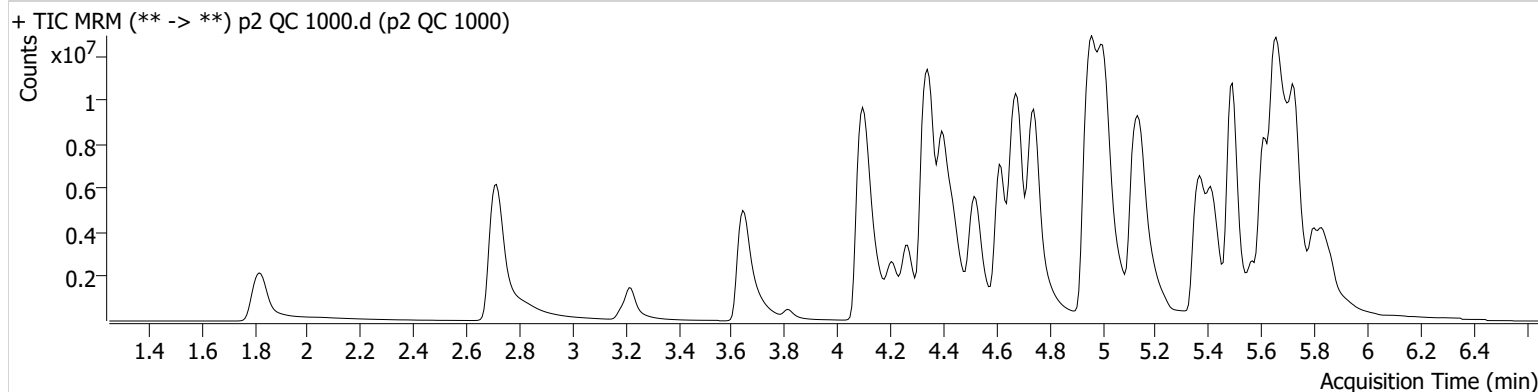


AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2022\AM 27-28\01192022 AM 28 TS\QuantResults\AM 28 P2 SC casework.batch.bin
Calibration Last Update 1/20/2022 1:23:01 PM

Instrument	Falco (069901)	Data File	p2 QC 1000.d
Type	QC	Sample	p2 QC 1000
Acq. Method	AM 28 MDQ P2 102521.m	Operator	Sarah Collins
Sample Position	P6-D11	Comment	
Injection Volume	5		
Acq. Date-Time	1/20/2022 4:42:50 AM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
acetyl-fentanyl	4.672	1474105	56487.51	84.1	87253.76	890765	100.9067 ng/ml
acetyl-norfentanyl	3.220	3130390	566341.56	36.8	418691.69	1431534	95.8205 ng/ml
Amitriptyline	5.699	3136428	46076.04	107.5	2405.83	134346	950.6304 ng/ml
* Flurazepam	5.358	14994022	238915.87	12.7	77176.81	46768	3993.1936 ng/ml
* Maprotiline	5.699	2981081	4817.61	18.0 Low	22635.48	134346	902.6204 ng/ml

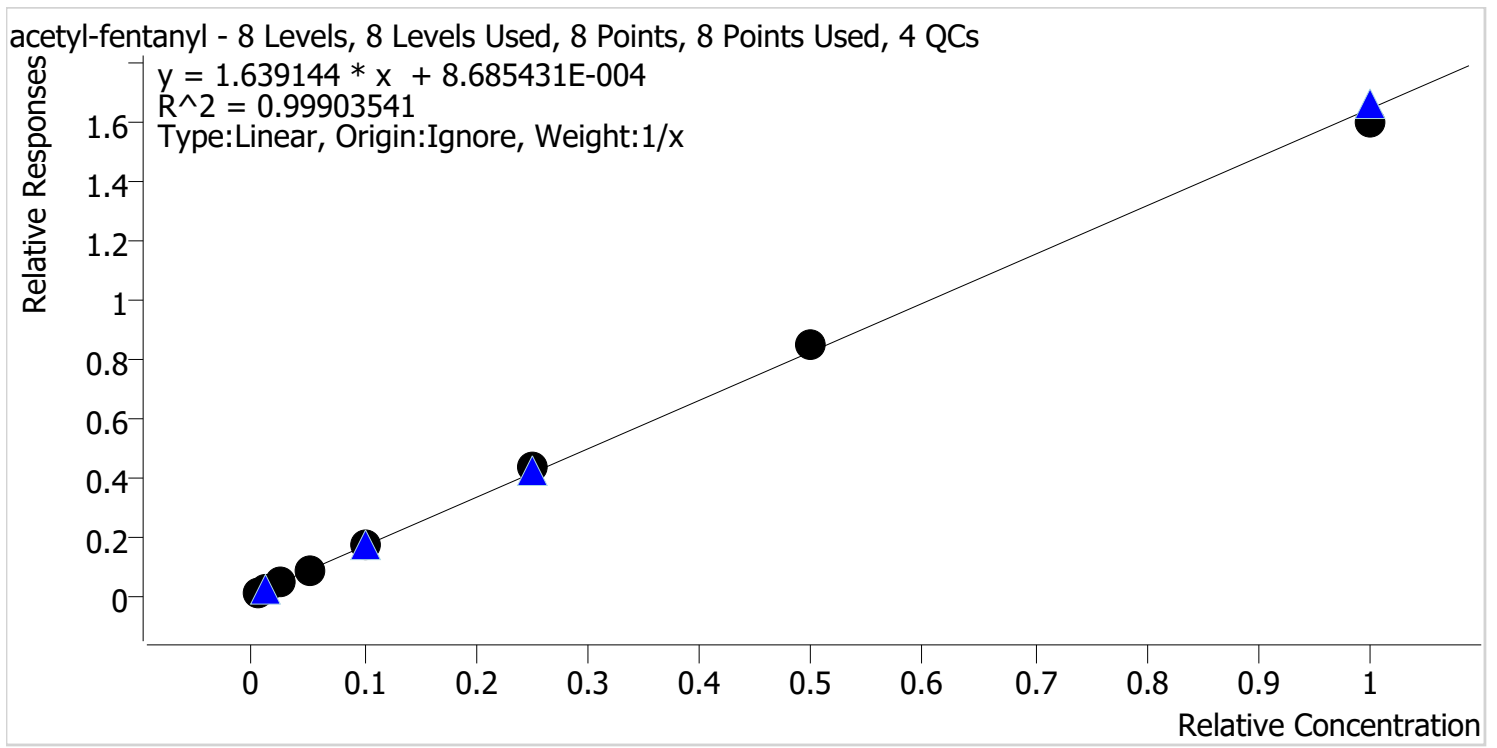
*OCR

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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2022\AM 27-28\01192022 AM 28 TS\QuantResults\AM 28 P2 SC casework.batch.bin
Last Cal. Update 1/20/2022 1:23 PM
Analyst Name ISP\datastor
Analyte acetyl-fentanyl **Internal Standard** acetyl-fentanyl-d5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p2 Cal 1-5ng	1	✓	0.5	0.5	95.4
p2 Cal 2-10ng	2	✓	1.0	1.0	97.6
p2 Cal 3 -25ng	3	✓	2.5	2.4	97.0
p2 Cal 4-50ng	4	✓	5.0	5.1	101.6
p2 Cal 5-100ng	5	✓	10.0	10.5	104.7
p2 Cal 6-250ng	6	✓	25.0	25.9	103.6
p2 Cal 7-500ng	7	✓	50.0	51.4	102.7
p2 Cal 8-1000ng	8	✓	100.0	97.3	97.3

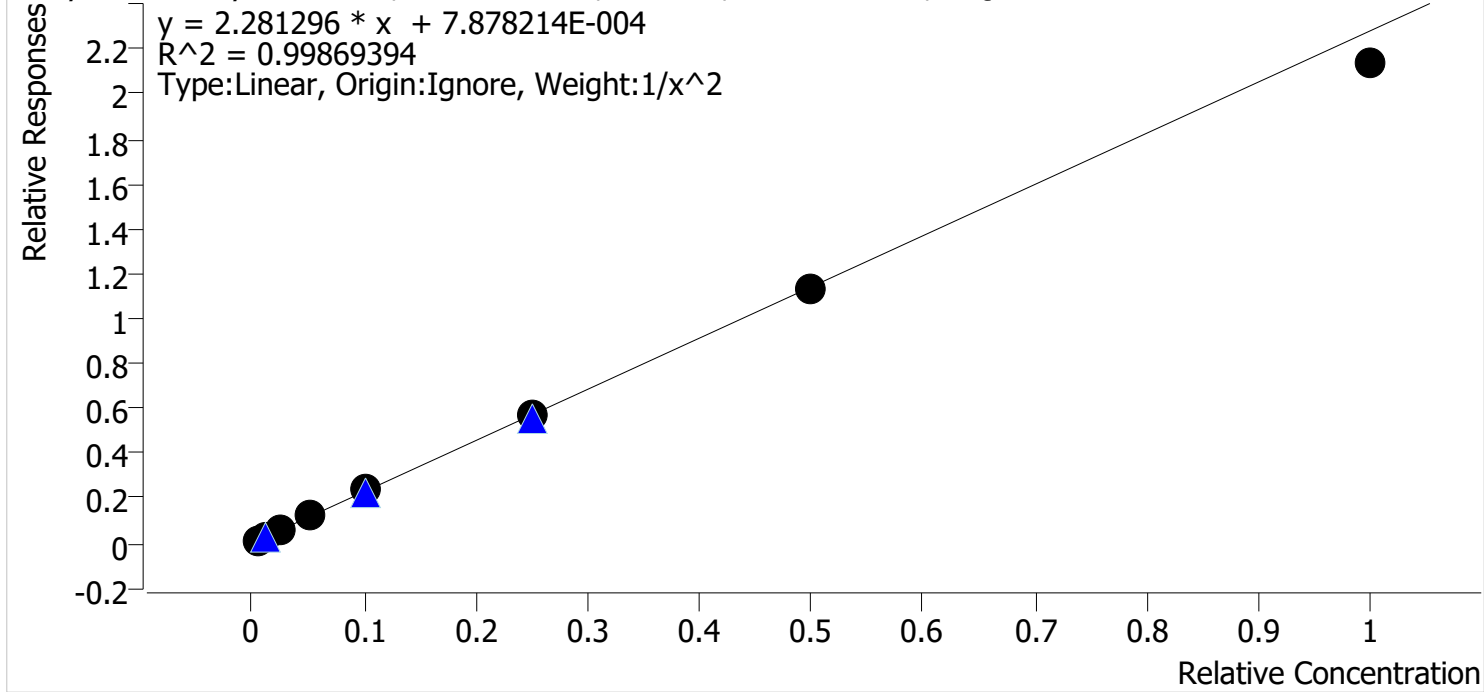
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2022\AM 27-28\01192022 AM 28 TS\QuantResults\AM 28 P2 SC
casework.batch.bin
Last Cal. Update 1/20/2022 1:23 PM
Analyst Name ISP\datastor
Analyte acetyl-norfentanyl **Internal Standard** acetyl-norfentanyl-d5

acetyl-norfentanyl - 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	0.5	98.6
p2 Cal 2-10ng	2	✓	1.0	1.0	101.8
p2 Cal 3 -25ng	3	✓	2.5	2.5	100.2
p2 Cal 4-50ng	4	✓	5.0	5.1	102.8
p2 Cal 5-100ng	5	✓	10.0	10.4	103.5
p2 Cal 6-250ng	6	✓	25.0	25.2	100.7
p2 Cal 7-500ng	7	✓	50.0	49.3	98.6
p2 Cal 8-1000ng	8	✓	100.0	93.6	93.6

SC



AM #28 Multi-Drug Quant. Calibration Curve Report

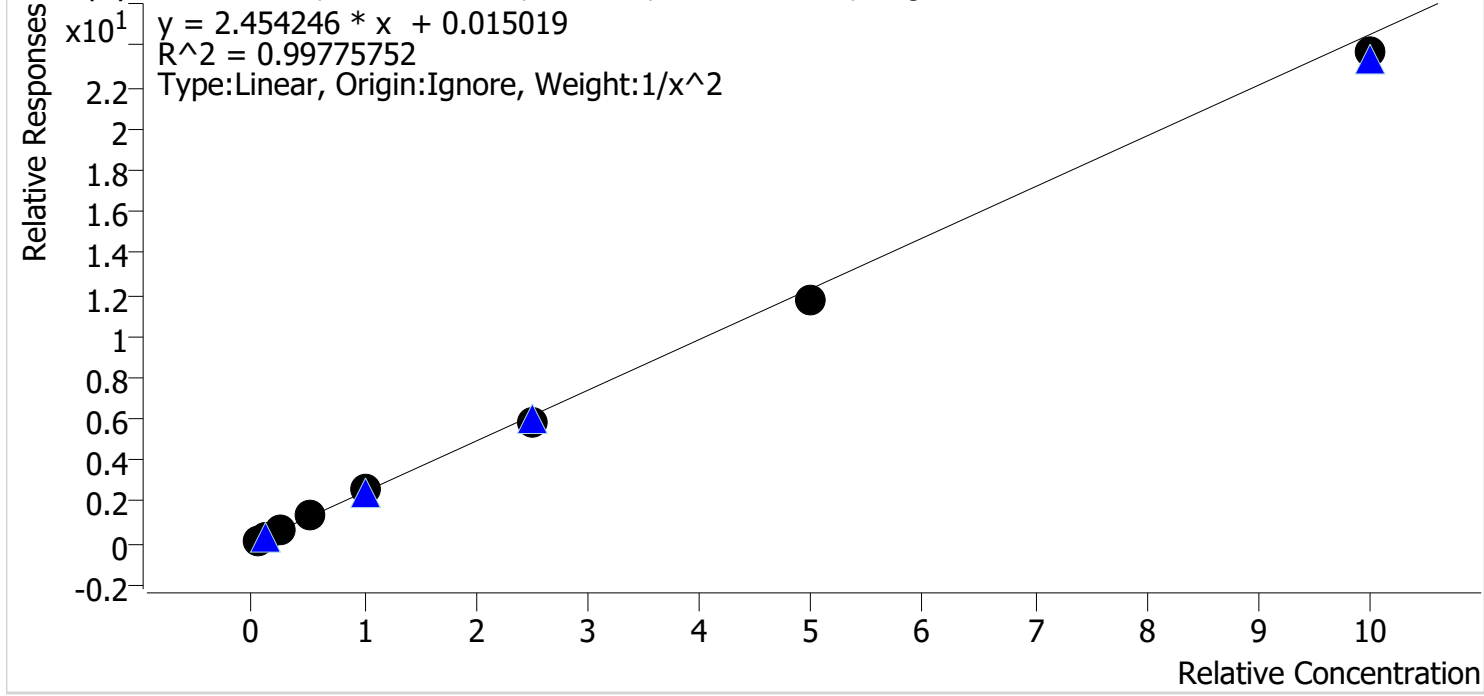
Batch results D:\MassHunter\Data\2022\AM 27-28\01192022 AM 28 TS\QuantResults\AM 28 P2 SC
casework.batch.bin

Last Cal. Update 1/20/2022 1:23 PM

Analyst Name ISP\datastor

Analyte Amitriptyline **Internal Standard** Amitriptyline-D3

Amitriptyline - 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	96.4
p2 Cal 2-10ng	2	✓	10.0	10.6	105.7
p2 Cal 3 -25ng	3	✓	25.0	25.4	101.8
p2 Cal 4-50ng	4	✓	50.0	51.3	102.6
p2 Cal 5-100ng	5	✓	100.0	104.7	104.7
p2 Cal 6-250ng	6	✓	250.0	240.5	96.2
p2 Cal 7-500ng	7	✓	500.0	480.9	96.2
p2 Cal 8-1000ng	8	✓	1000.0	964.8	96.5

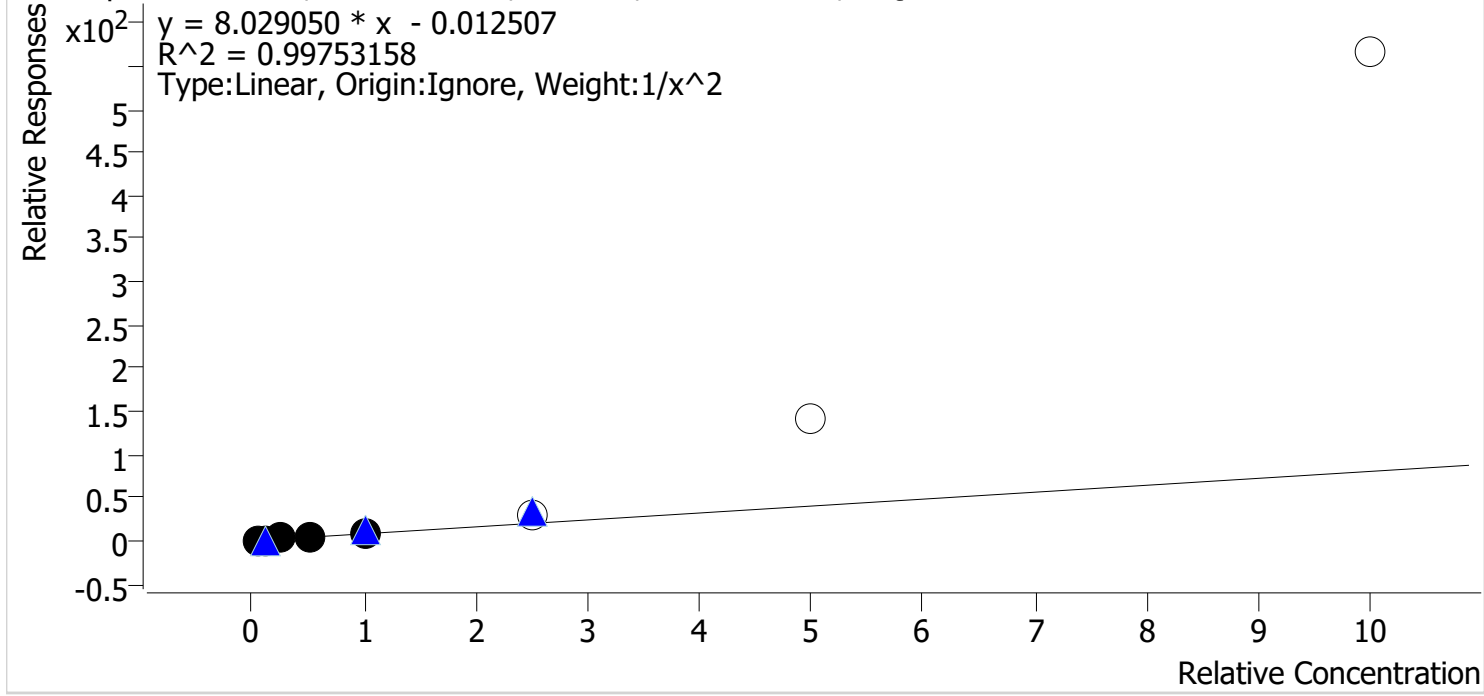
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2022\AM 27-28\01192022 AM 28 TS\QuantResults\AM 28 P2 SC casework.batch.bin
Last Cal. Update 1/20/2022 1:23 PM
Analyst Name ISP\datastor
Analyte Flurazepam **Internal Standard** Flunitrazepam-D7

Flurazepam - 8 Levels, 5 Levels Used, 8 Points, 5 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p2 Cal 1-5ng	1	✓	5.0	5.0	100.4
p2 Cal 2-10ng	2	✓	10.0	10.1	101.1
p2 Cal 3 -25ng	3	✓	25.0	23.4	93.4
p2 Cal 4-50ng	4	✓	50.0	51.0	101.9
p2 Cal 5-100ng	5	✓	100.0	103.2	103.2
p2 Cal 6-250ng	6	x	250.0	351.1	140.4
p2 Cal 7-500ng	7	x	500.0	1737.4	347.5
p2 Cal 8-1000ng	8	x	1000.0	7048.1	704.8

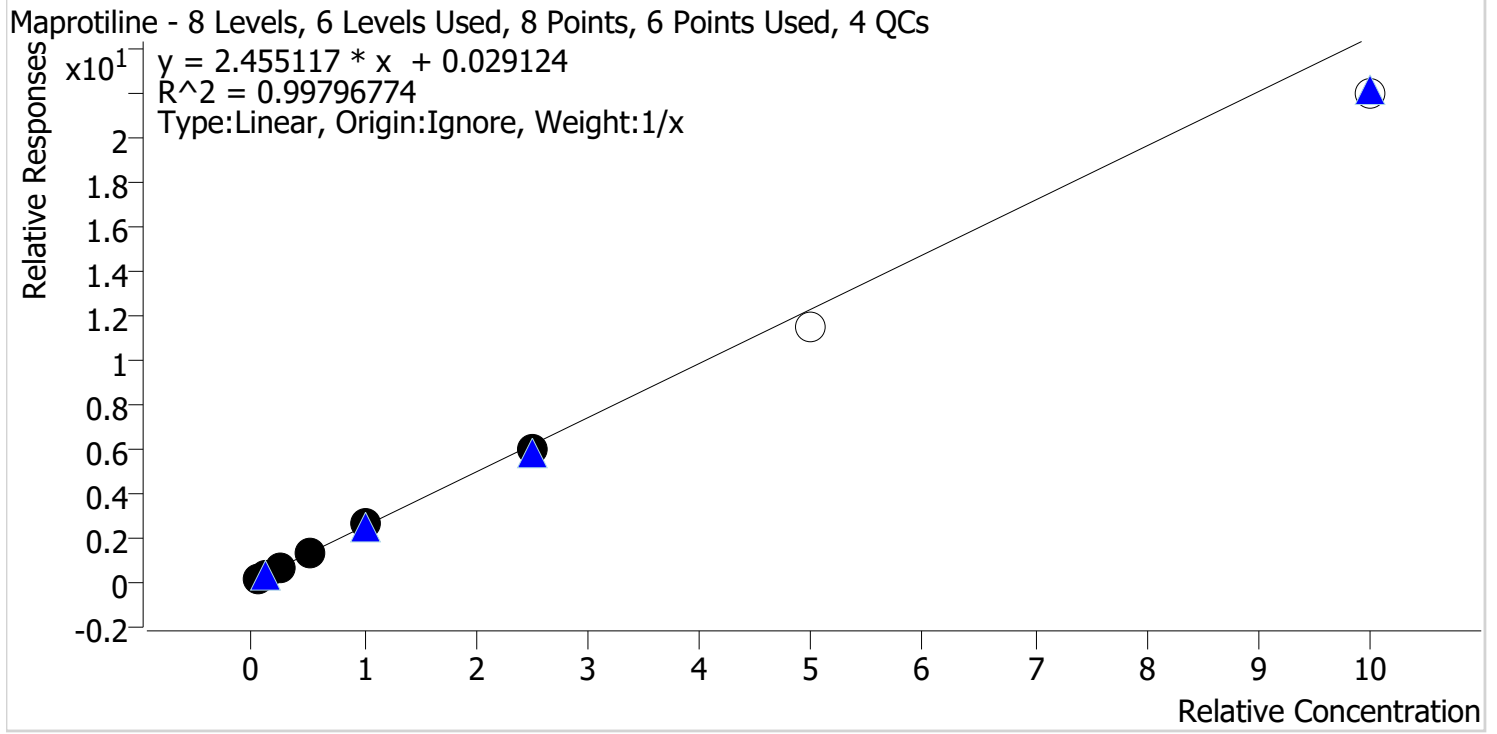
Calibrators 6-8 dropped due to accuracy

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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2022\AM 27-28\01192022 AM 28 TS\QuantResults\AM 28 P2 SC casework.batch.bin
Last Cal. Update 1/20/2022 1:23 PM
Analyst Name ISP\datastor
Analyte Maprotiline **Internal Standard** Amitriptyline-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p2 Cal 1-5ng	1	✓	5.0	4.3	86.5
p2 Cal 2-10ng	2	✓	10.0	10.5	104.9
p2 Cal 3 -25ng	3	✓	25.0	26.2	104.7
p2 Cal 4-50ng	4	✓	50.0	50.6	101.1
p2 Cal 5-100ng	5	✓	100.0	105.6	105.6
p2 Cal 6-250ng	6	✓	250.0	242.8	97.1
p2 Cal 7-500ng	7	x	500.0	469.5	93.9
p2 Cal 8-1000ng	8	x	1000.0	894.4	89.4

Calibrators 7 and 8 dropped due to ratio

SC

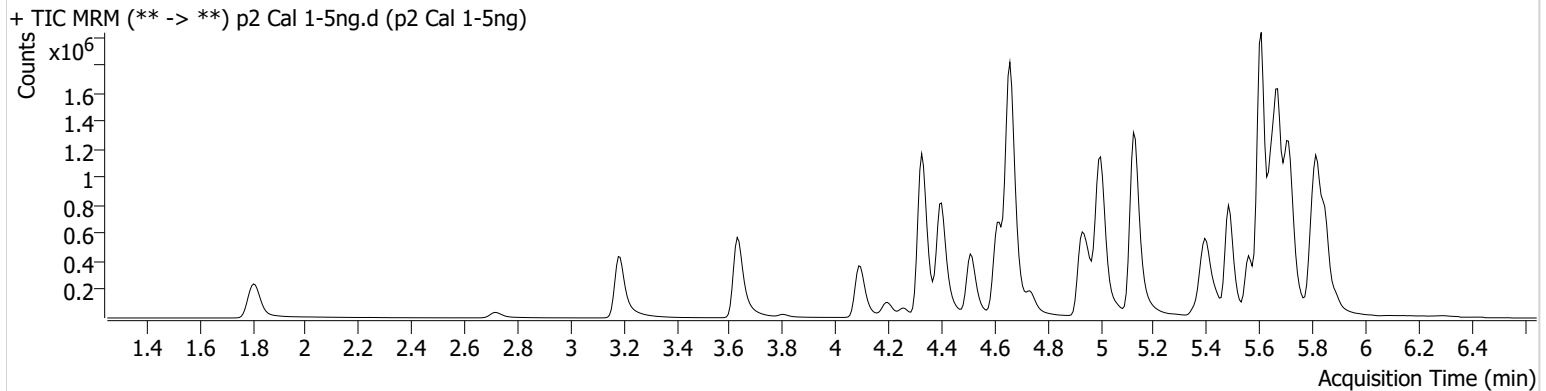


AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2022\AM 27-28\01192022 AM 28 TS\QuantResults\AM 28 P2 SC casework.batch.bin
Calibration Last Update 1/20/2022 1:23:01 PM

Instrument	Falco (069901)	Data File	p2 Cal 1-5ng.d
Type	Cal	Sample	p2 Cal 1-5ng
Acq. Method	AM 28 MDQ P2 102521.m	Operator	Sarah Collins
Sample Position	P6-A10	Comment	
Injection Volume	5		
Acq. Date-Time	1/20/2022 2:12:26 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
acetyl-fentanyl	4.672	15868	499.72	82.5	11105.69	1826004	0.4772 ng/ml
acetyl-norfentanyl	3.213	16203	5142.22	36.8	348.36	1345811	0.4932 ng/ml
Amitriptyline	5.699	69311	709.68	90.6	767.53	519759	4.8216 ng/ml
Flurazepam	5.358	147418	190299.24	10.9	505.02	377307	5.0220 ng/ml
Maprotiline	5.699	70297	393.03	52.1	315.99	519759	4.3226 ng/ml

SC

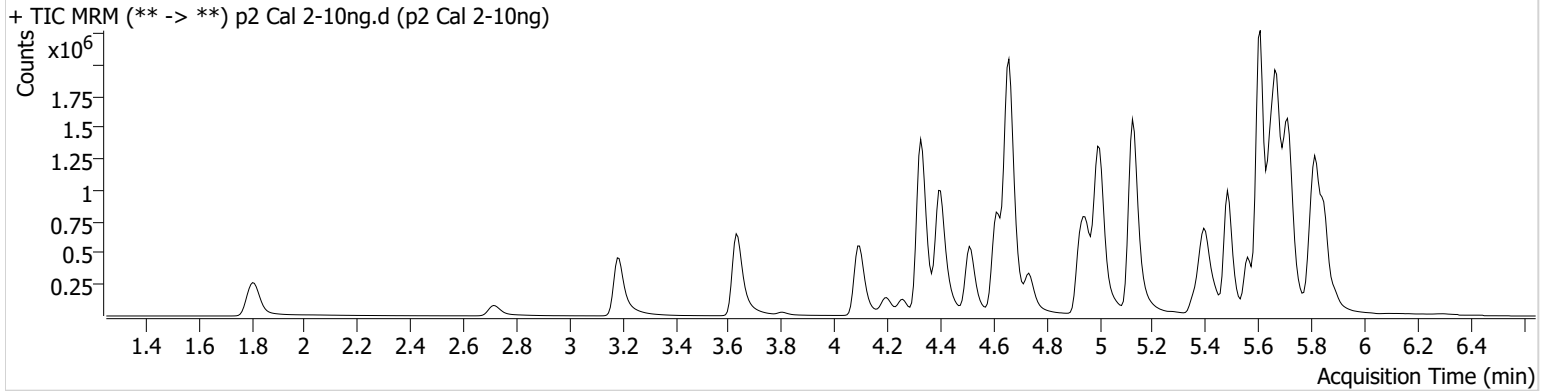


AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2022\AM 27-28\01192022 AM 28 TS\QuantResults\AM 28 P2 SC casework.batch.bin
Calibration Last Update 1/20/2022 1:23:01 PM

Instrument	Falco (069901)	Data File	p2 Cal 2-10ng.d
Type	Cal	Sample	p2 Cal 2-10ng
Acq. Method	AM 28 MDQ P2 102521.m	Operator	Sarah Collins
Sample Position	P6-B10	Comment	
Injection Volume	5		
Acq. Date-Time	1/20/2022 2:23:20 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
acetyl-fentanyl	4.665	32637	2986.74	87.1	3560.11	1934076	0.9765 ng/ml
acetyl-norfentanyl	3.213	34614	207.40	37.5	236.98	1442061	1.0176 ng/ml
Amitriptyline	5.699	136223	4608.73	94.2	1306.66	496335	10.5710 ng/ml
Flurazepam	5.351	316869	32371.88	11.8	3308.86	396628	10.1060 ng/ml
Maprotiline	5.699	142337	294.61	53.1	442.81	496335	10.4945 ng/ml

SC

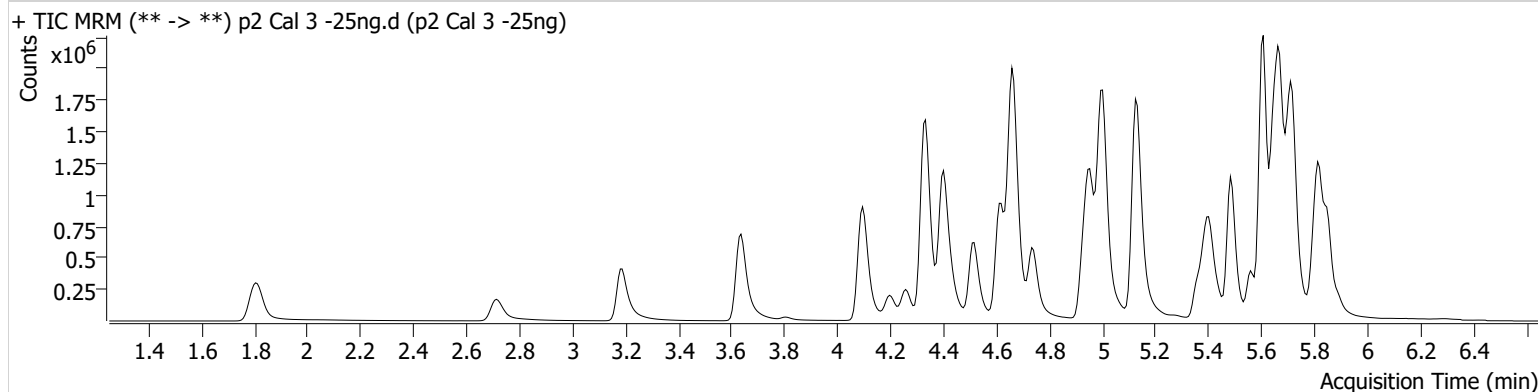


AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2022\AM 27-28\01192022 AM 28 TS\QuantResults\AM 28 P2 SC casework.batch.bin
Calibration Last Update 1/20/2022 1:23:01 PM

Instrument	Falco (069901)	Data File	p2 Cal 3 -25ng.d
Type	Cal	Sample	p2 Cal 3 -25ng
Acq. Method	AM 28 MDQ P2 102521.m	Operator	Sarah Collins
Sample Position	P6-C10	Comment	
Injection Volume	5		
Acq. Date-Time	1/20/2022 2:34:03 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
acetyl-fentanyl	4.672	62085	474.99	87.5	1682.35	1528727	2.4247 ng/ml
acetyl-norfentanyl	3.213	73868	4336.83	37.1	633.79	1274712	2.5056 ng/ml
Amitriptyline	5.699	239835	898.76	97.3	2494.79	375032	25.4452 ng/ml
Flurazepam	5.358	619395	6027.03	11.8	47853.08	332599	23.3501 ng/ml
Maprotiline	5.699	252013	2042.15	52.6	1881.84	375032	26.1843 ng/ml

SC

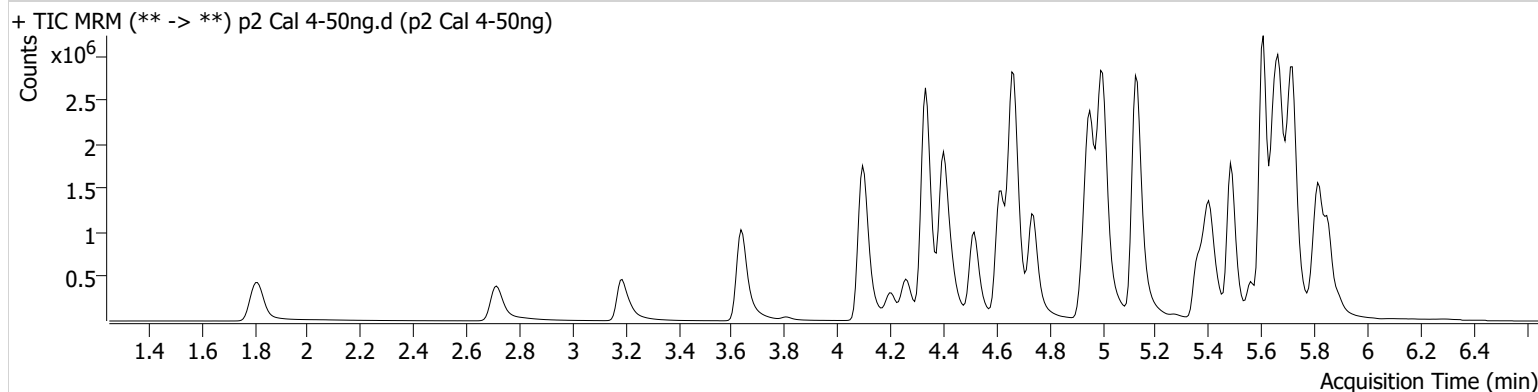


AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2022\AM 27-28\01192022 AM 28 TS\QuantResults\AM 28 P2 SC casework.batch.bin
Calibration Last Update 1/20/2022 1:23:01 PM

Instrument	Falco (069901)	Data File	p2 Cal 4-50ng.d
Type	Cal	Sample	p2 Cal 4-50ng
Acq. Method	AM 28 MDQ P2 102521.m	Operator	Sarah Collins
Sample Position	P6-D10	Comment	
Injection Volume	5		
Acq. Date-Time	1/20/2022 2:44:48 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
acetyl-fentanyl	4.672	135093	4012.80	83.9	2715.07	1606359	5.0777 ng/ml
acetyl-norfentanyl	3.213	165536	247400.01	37.1	2393.94	1401722	5.1421 ng/ml
Amitriptyline	5.699	411261	1369.61	96.0	2069.27	322941	51.2772 ng/ml
Flurazepam	5.358	1420027	1515588.26	11.5	500.99	348173	50.9527 ng/ml
Maprotiline	5.699	410276	485.19	46.6	814.22	322941	50.5603 ng/ml

SC

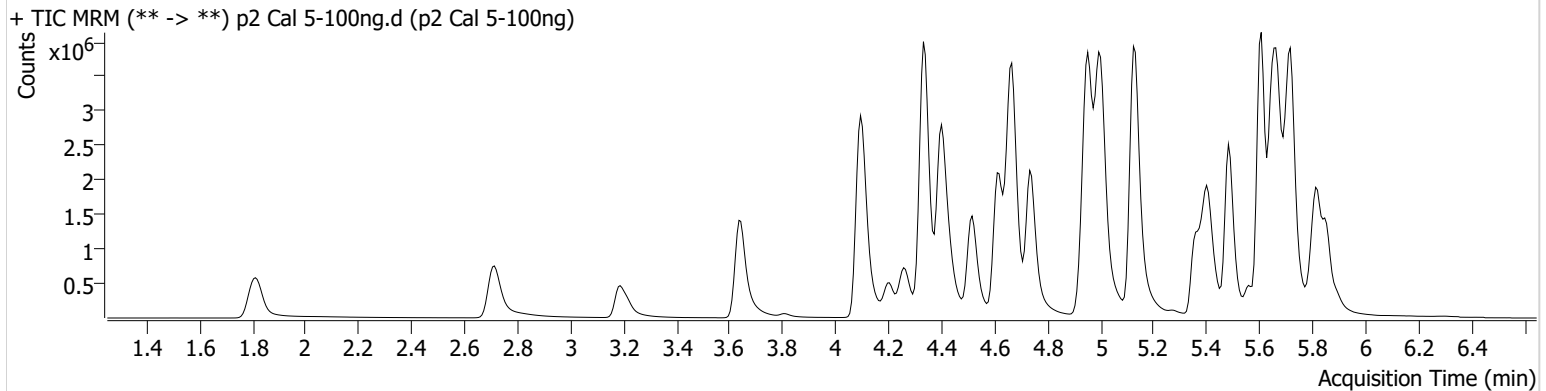


AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2022\AM 27-28\01192022 AM 28 TS\QuantResults\AM 28 P2 SC casework.batch.bin
Calibration Last Update 1/20/2022 1:23:01 PM

Instrument	Falco (069901)	Data File	p2 Cal 5-100ng.d
Type	Cal	Sample	p2 Cal 5-100ng
Acq. Method	AM 28 MDQ P2 102521.m	Operator	Sarah Collins
Sample Position	P6-E10	Comment	
Injection Volume	5		
Acq. Date-Time	1/20/2022 2:55:32 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
acetyl-fentanyl	4.672	227002	1391.36	82.2	2424.61	1315975	10.4706 ng/ml
acetyl-norfentanyl	3.213	320856	71754.58	37.1	1792.56	1353789	10.3546 ng/ml
Amitriptyline	5.699	587808	2871.54	97.1	2965.20	227465	104.6818 ng/ml
Flurazepam	5.358	2435462	6328.87	12.4	3466.72	294386	103.1945 ng/ml
Maprotiline	5.699	596438	8560.72	45.1	743.90	227465	105.6156 ng/ml

SC

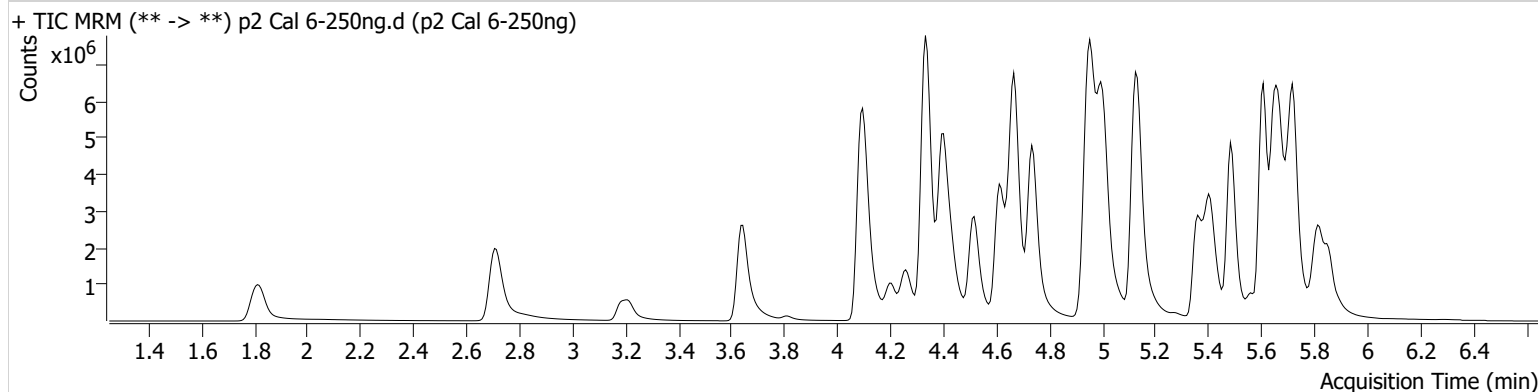


AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2022\AM 27-28\01192022 AM 28 TS\QuantResults\AM 28 P2 SC casework.batch.bin
Calibration Last Update 1/20/2022 1:23:01 PM

Instrument Falco (069901) **Data File** p2 Cal 6-250ng.d
Type Cal **Sample** p2 Cal 6-250ng
Acq. Method AM 28 MDQ P2 102521.m **Operator** Sarah Collins
Sample Position P6-F10 **Comment**
Injection Volume 5
Acq. Date-Time 1/20/2022 3:06:16 AM
Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
acetyl-fentanyl	4.672	500359	2688.07	82.5	3579.95	1175662	25.9117 ng/ml
acetyl-norfentanyl	3.213	844555	11208.57	37.0	72664.89	1468072	25.1828 ng/ml
Amitriptyline	5.699	1063038	2219.27	102.1	2606.63	179680	240.4517 ng/ml
Flurazepam	5.358	5990738	538.13	12.7	4564.97	212636	351.0526 ng/ml
Maprotiline	5.699	1076408	5014.19	39.6	7904.99	179680	242.8227 ng/ml

SC

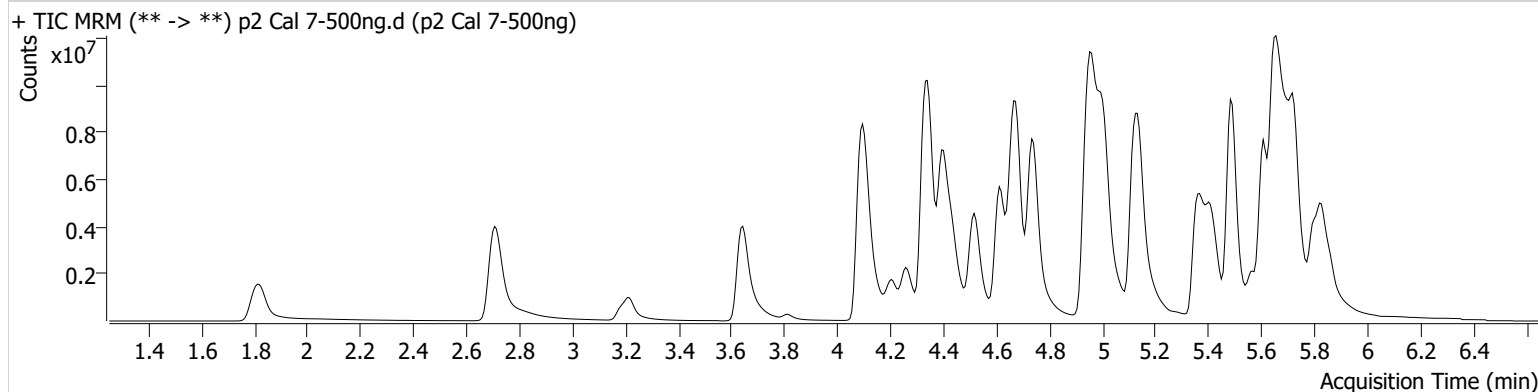


AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2022\AM 27-28\01192022 AM 28 TS\QuantResults\AM 28 P2 SC casework.batch.bin
Calibration Last Update 1/20/2022 1:23:01 PM

Instrument	Falco (069901)	Data File	p2 Cal 7-500ng.d
Type	Cal	Sample	p2 Cal 7-500ng
Acq. Method	AM 28 MDQ P2 102521.m	Operator	Sarah Collins
Sample Position	P6-G10	Comment	
Injection Volume	5		
Acq. Date-Time	1/20/2022 3:16:59 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
acetyl-fentanyl	4.672	1130084	5625.14	85.5	554701.99	1340817	51.3661 ng/ml
acetyl-norfentanyl	3.213	1811367	1432.55	37.0	16510.34	1608684	49.3231 ng/ml
Amitriptyline	5.699	3144804	343.91	107.0	1694.63	266123	480.8848 ng/ml
Flurazepam	5.351	11474966	508.30	12.5	35600.90	82266	1737.4300 ng/ml
Maprotiline	5.699	3074979	1163.39	20.4 Low	370.20	266123	469.4527 ng/ml

SC

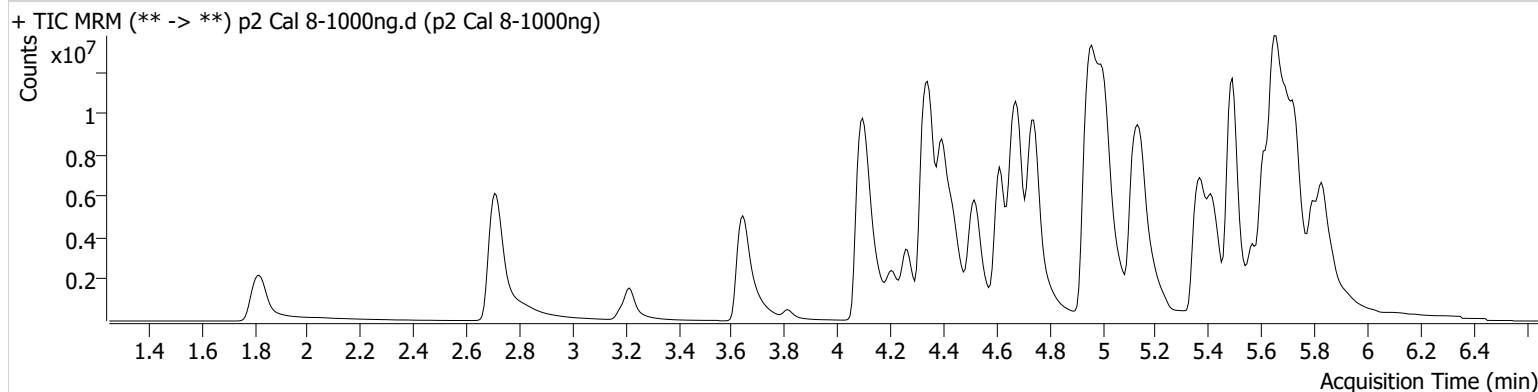


AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2022\AM 27-28\01192022 AM 28 TS\QuantResults\AM 28 P2 SC casework.batch.bin
Calibration Last Update 1/20/2022 1:23:01 PM

Instrument Falco (069901) **Data File** p2 Cal 8-1000ng.d
Type Cal **Sample** p2 Cal 8-1000ng
Acq. Method AM 28 MDQ P2 102521.m **Operator** Sarah Collins
Sample Position P6-H10 **Comment**
Injection Volume 5
Acq. Date-Time 1/20/2022 3:27:41 AM
Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
acetyl-fentanyl	4.672	1686917	4073.75	87.9	2150.79	1057174	97.2957 ng/ml
acetyl-norfentanyl	3.213	3262737	9520.55	36.8	314953.35	1527405	93.6022 ng/ml
Amitriptyline	5.699	4292497	39363.20	106.9	223.08	181160	964.8403 ng/ml
Flurazepam	5.358	15300603	243204.34	12.9	510.19	27038	7048.1043 ng/ml
Maprotiline	5.699	3983183	30508.35	14.7 Low	254.88	181160	894.3784 ng/ml