



SJ

REVIEWED
By Sarah Pickle at 1:31 pm, Sep 23, 2020

9/21/2020

Worklist: 4528

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
P2020-2795	1.12	CBUK	AM 28 Urine Multi-Drug Confirmation Panel 2 by LC-QQ	
P2020-2795	1.8	CBUK	AM 28 Urine Multi-Drug Confirmation Panel 2 by LC-QQ	

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

Extraction Date: 09/17/2020

Analyst: Sophia Jackson

Plate lot#: IDP-112-2-200514

Plate Expiration: 11/14/2020

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

Mobile phase B: 0.01% Formic Acid in MeOH

Blank Blood Lot: Hemostat 445283-4

Blank Urine Lot: POCO31319

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: #16**
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 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/urine+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 **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. **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 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? 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:

Compounds evaluated: 7-aminoflunitrazepam, Acetyl Fentanyl, Acetyl Norfentanyl, Etizolam, Flunitrazepam, Flurazepam 5-100, Midazolam, Norketamine 5-250



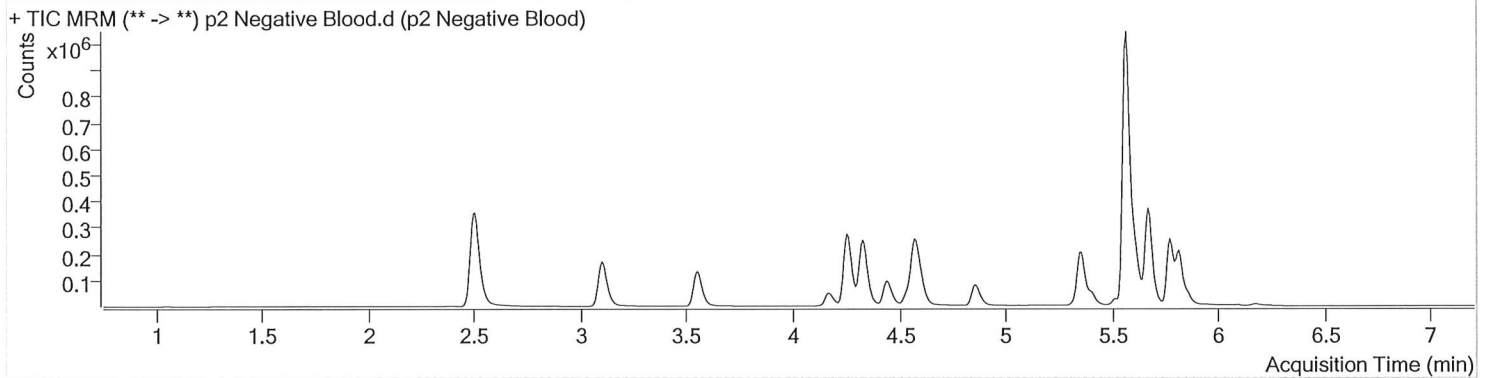
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020\AM 27-28\091720 AM 27 AM 28 P1 P2 SJ comp test\QuantResults\AM 28 P2 casework and external control compounds.batch.bin

Calibration Last Update 9/22/2020 10:13:31 AM

Instrument	Falco	Data File	p2 Negative Blood.d
Type	Sample	Sample	p2 Negative Blood
Acq. Method	MDQ P2 061720.m	Operator	Sophia Jackson
Sample Position	P6-D11	Comment	
Injection Volume	2		
Acq. Date-Time	9/18/2020 9:28:02 AM		
Sample Info.			

Sample Chromatogram





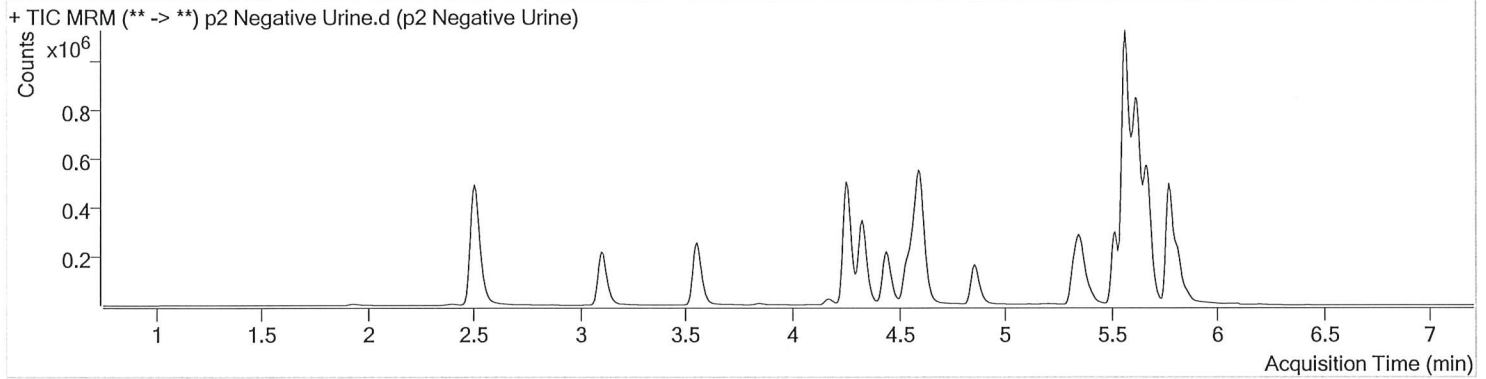
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020\AM 27-28\091720 AM 27 AM 28 P1 P2 SJ comp test\QuantResults\AM 28 P2 casework and external control compounds.batch.bin

Calibration Last Update 9/22/2020 10:13:31 AM

Instrument	Falco	Data File	p2 Negative Urine.d
Type	Sample	Sample	p2 Negative Urine
Acq. Method	MDQ P2 061720.m	Operator	Sophia Jackson
Sample Position	P6-B11	Comment	
Injection Volume	2		
Acq. Date-Time	9/18/2020 10:10:30 AM		
Sample Info.			

Sample Chromatogram





Idaho State Police Forensic Services

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

Methanol External Control Solution (Lot: 022420)
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	193941	
Midazolam	Cerilliant	FE01161704	04/30/2022
Etizolam	Cerilliant	FN06061606	11/30/2020
Flunitrazepam	Cerilliant	FE08051602	08/31/2022
Flurazepam	Cerilliant	FE02101501	04/30/2020
Prepared:	02/24/2020		
Prepared By:	Celena Shrum		
Expires:	Per AM 21 reference materials used for qualitative purposes do not have an expiration date.		

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Urine External Control Solution (Lot: WS022420)
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	-	022420
Prepared:	02/24/2020	
Prepared by:	Celena Shrum	
Expires:	Per AM 21 reference materials used for qualitative purposes do not have an expiration date.	

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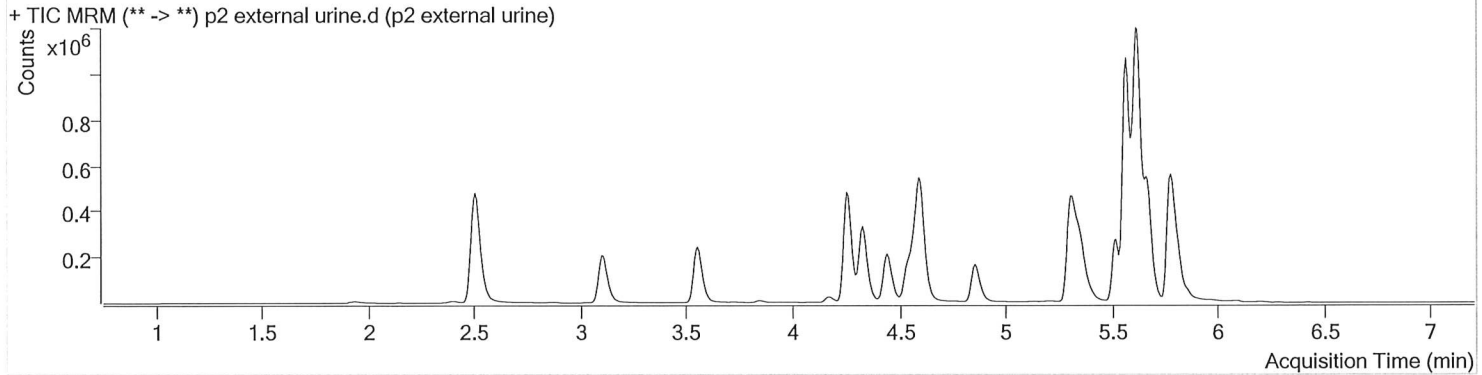
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020\AM 27-28\091720 AM 27 AM 28 P1 P2 SJ comp test\QuantResults\AM 28 P2 casework and external control compounds.batch.bin

Calibration Last Update 9/22/2020 10:13:31 AM

Instrument	Falco	Data File	p2 external urine.d
Type	Sample	Sample	p2 external urine
Acq. Method	MDQ P2 061720.m	Operator	Sophia Jackson
Sample Position	P6-C11	Comment	
Injection Volume	2		
Acq. Date-Time	9/18/2020 9:49:16 AM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Etizolam	5.791	207934	2542.90	27.1	5675.81	616212	36.6177 ng/ml
Flunitrazepam	5.614	574974	4922.91	40.0	5006.32	206877	49.2745 ng/ml
Flurazepam	5.304	956937	∞	13.4	18768.66	206877	184.9225 ng/ml
Midazolam	5.785	118187	1171.38	87.2	25311.73	262294	51.1790 ng/ml

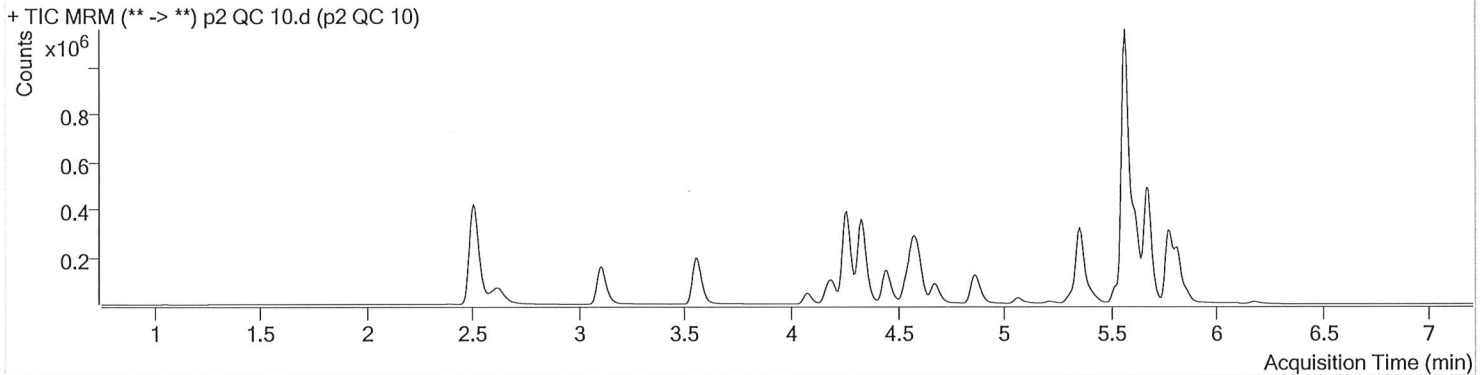


AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020\AM 27-28\091720 AM 27 AM 28 P1 P2 SJ comp test\QuantResults\AM 28 P2 casework and external control compounds.batch.bin
Calibration Last Update 9/22/2020 10:13:31 AM

Instrument	Falco	Data File	p2 QC 10.d
Type	QC	Sample	p2 QC 10
Acq. Method	MDQ P2 061720.m	Operator	Sophia Jackson
Sample Position	P6-H11	Comment	
Injection Volume	2		
Acq. Date-Time	9/18/2020 7:52:36 AM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoflunitrazepam	4.600	109373	1102.34	23.2	420.11	588858	10.6792 ng/ml
acetyl-fentanyl	4.611	4298	278.46	71.5	10769.97	230804	1.1116 ng/ml
acetyl-norfentanyl	3.136	13317	924.54	34.3	685.62	465002	1.0304 ng/ml
Etizolam	5.791	58436	∞	25.5	25306.36	719633	9.4838 ng/ml
Flunitrazepam	5.614	153561	3027.64	40.2	∞	248471	10.5481 ng/ml
Flurazepam	5.304	63432	11670.73	12.8	2919.85	248471	11.5144 ng/ml
Midazolam	5.778	17346	∞	93.1	9763.27	181961	9.8926 ng/ml
Norketamine	4.081	20041	∞	508.1	3351.43	465002	10.3864 ng/ml



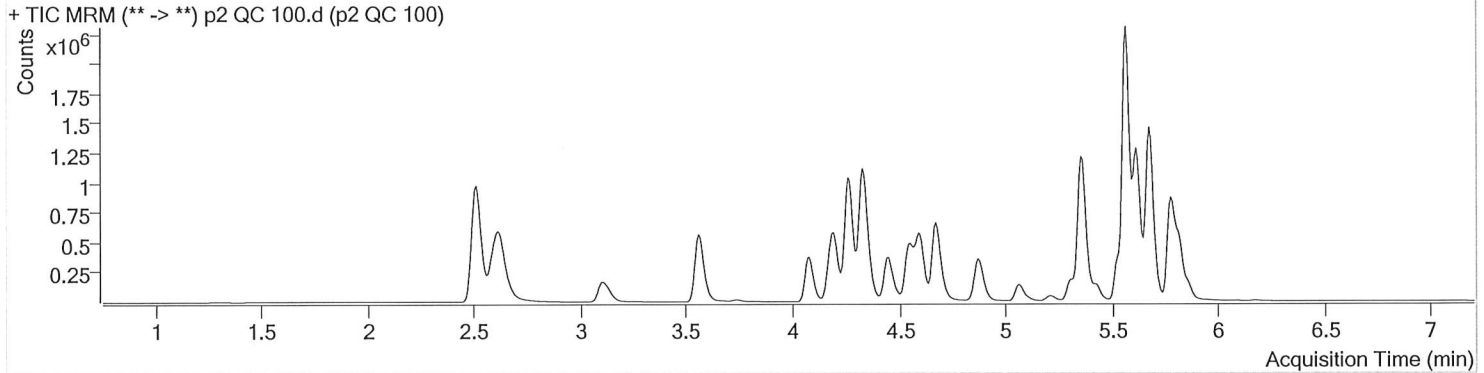
AM #28 Multi-Drug Quant. Results

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Calibration Last Update 9/22/2020 10:13:31 AM

Instrument	Falco	Data File	p2 QC 100.d
Type	QC	Sample	p2 QC 100
Acq. Method	MDQ P2 061720.m	Operator	Sophia Jackson
Sample Position	P6-G11	Comment	
Injection Volume	2		
Acq. Date-Time	9/18/2020 8:13:49 AM		

Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoflunitrazepam	4.600	884468	1424.73	24.6	∞	525046	105.0566 ng/ml
acetyl-fentanyl	4.611	22129	413.84	66.5	32569.75	127773	10.4777 ng/ml
acetyl-norfentanyl	3.136	122425	∞	36.0	12028.14	459508	9.9181 ng/ml
Etizolam	5.791	456993	4594.80	27.0	∞	574465	85.1244 ng/ml
Flunitrazepam	5.614	1260330	10104.02	39.4	3411.68	212599	105.6974 ng/ml
Flurazepam	5.304	403254	∞	12.6	∞	212599	76.6463 ng/ml
Midazolam	5.778	146718	1946.90	89.6	∞	155904	108.1802 ng/ml
Norketamine	4.081	171769	2199.98	506.3	16690.43	459508	96.0073 ng/ml

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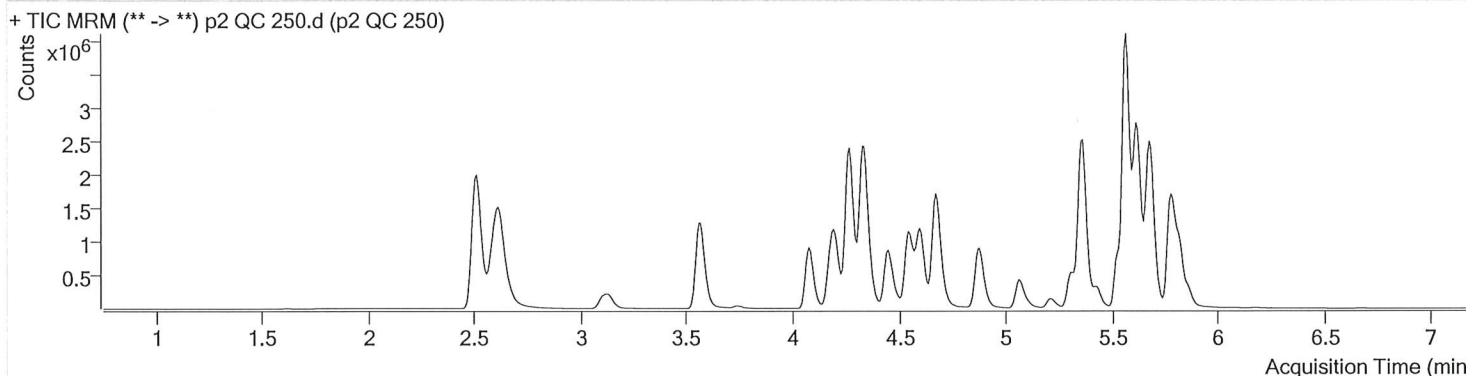
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Batch results D:\MassHunter\Data\2020\AM 27-28\091720 AM 27 AM 28 P1 P2 SJ comp test\QuantResults\AM 28 P2 casework and external control compounds.batch.bin

Calibration Last Update 9/22/2020 10:13:31 AM

Instrument	Falco	Data File	p2 QC 250.d
Type	QC	Sample	p2 QC 250
Acq. Method	MDQ P2 061720.m	Operator	Sophia Jackson
Sample Position	P6-F11	Comment	
Injection Volume	2		
Acq. Date-Time	9/18/2020 8:35:01 AM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoflunitrazepam	4.600	2171592	∞	24.5	61006.04	541318	251.5908 ng/ml
acetyl-fentanyl	4.611	67708	1414.93	67.1	138199.44	153173	26.7693 ng/ml
acetyl-norfentanyl	3.136	322722	54622.85	36.2	6965.56	486306	24.7637 ng/ml
Etizolam	5.791	997892	12751.29	26.7	∞	452407	234.4586 ng/ml
Flunitrazepam	5.614	2751975	9291.17	39.9	∞	194779	252.6358 ng/ml
Flurazepam	5.304	1193965	∞	13.0	∞	194779	244.6071 ng/ml *
Midazolam	5.778	353265	4473.94	88.6	1958.19	156625	260.9325 ng/ml
Norketamine	4.081	431510	3231.20	498.0	90381.35	486306	228.9559 ng/ml

* Outside curve range

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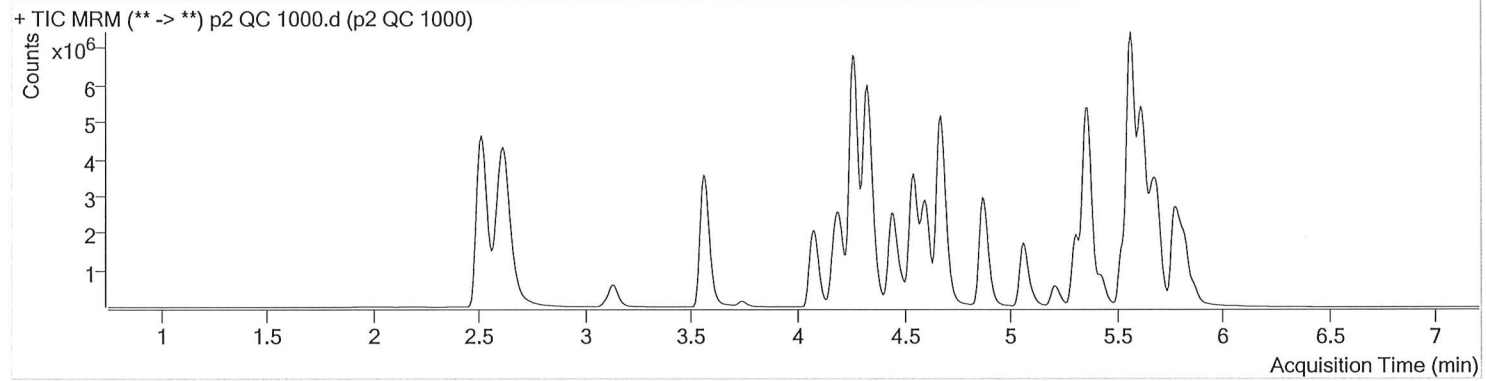


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Calibration Last Update 9/22/2020 10:13:31 AM

Instrument	Falco	Data File	p2 QC 1000.d
Type	QC	Sample	p2 QC 1000
Acq. Method	MDQ P2 061720.m	Operator	Sophia Jackson
Sample Position	P6-E11	Comment	
Injection Volume	2		
Acq. Date-Time	9/18/2020 8:56:13 AM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoflunitrazepam	4.600	6141292	32946.48	24.4	24004.08	441672	874.5303 ng/ml
acetyl-fentanyl	4.611	220080	8496.08	71.4	∞	125886	105.9209 ng/ml
acetyl-norfentanyl	3.136	1205931	2549.73	35.6	9177.36	458031	98.3666 ng/ml
Etizolam	5.797	1900141	10444.82	27.2	3874.51	194982	1032.8387 ng/ml
Flunitrazepam	5.621	5446509	∞	39.6	∞	102562	951.0134 ng/ml
Flurazepam	5.304	4512405	∞	13.1	∞	102562	1747.1053 ng/ml *
Midazolam	5.778	869318	2414.77	88.5	5121.52	101800	991.2220 ng/ml
Norketamine	4.081	1124987	12247.88	493.0	654766.14	458031	635.1220 ng/ml *

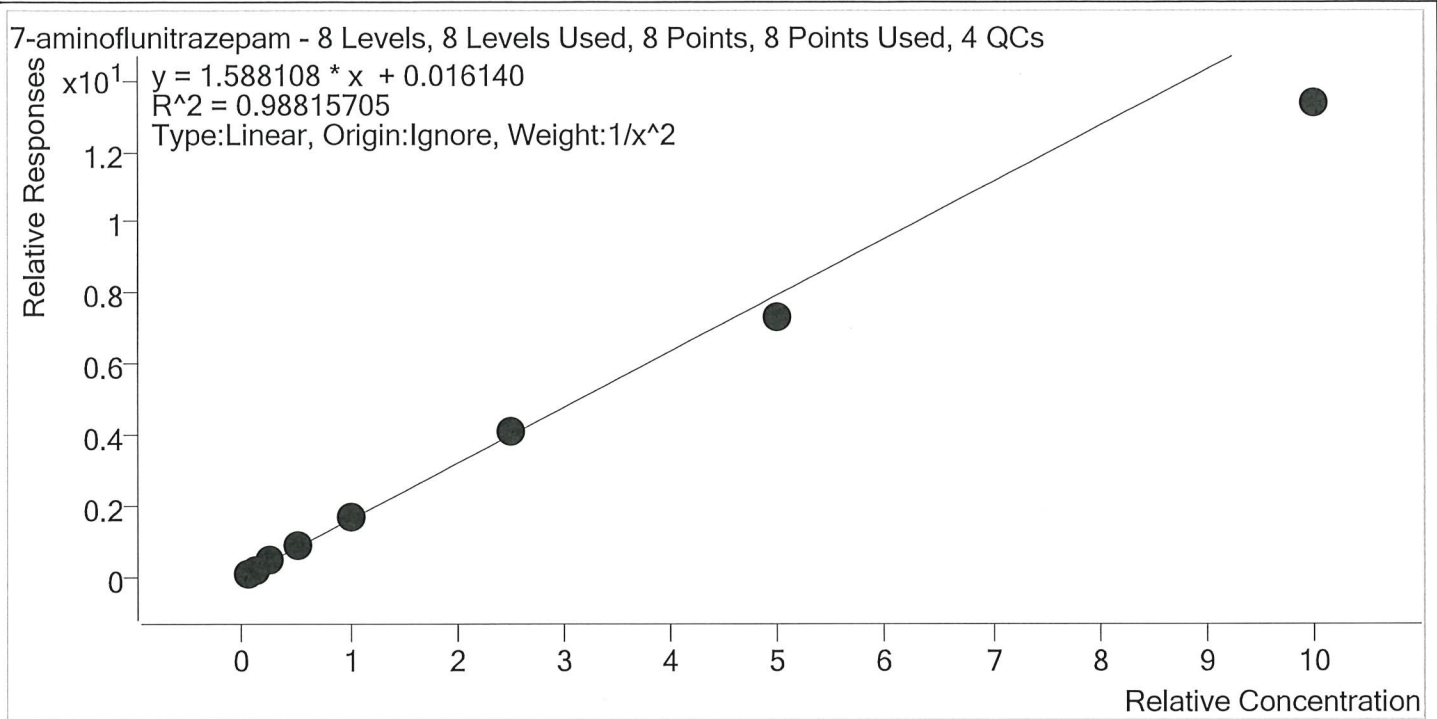
* Outside curve range

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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\091720 AM 27 AM 28 P1 P2 SJ comp test\QuantResults\AM 28 P2 casework and external control compounds.batch.bin
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Analyst Name ISP\datastor
Analyte 7-aminoflunitrazepam **Internal Standard** 7-aminoflunitrazepam-D7

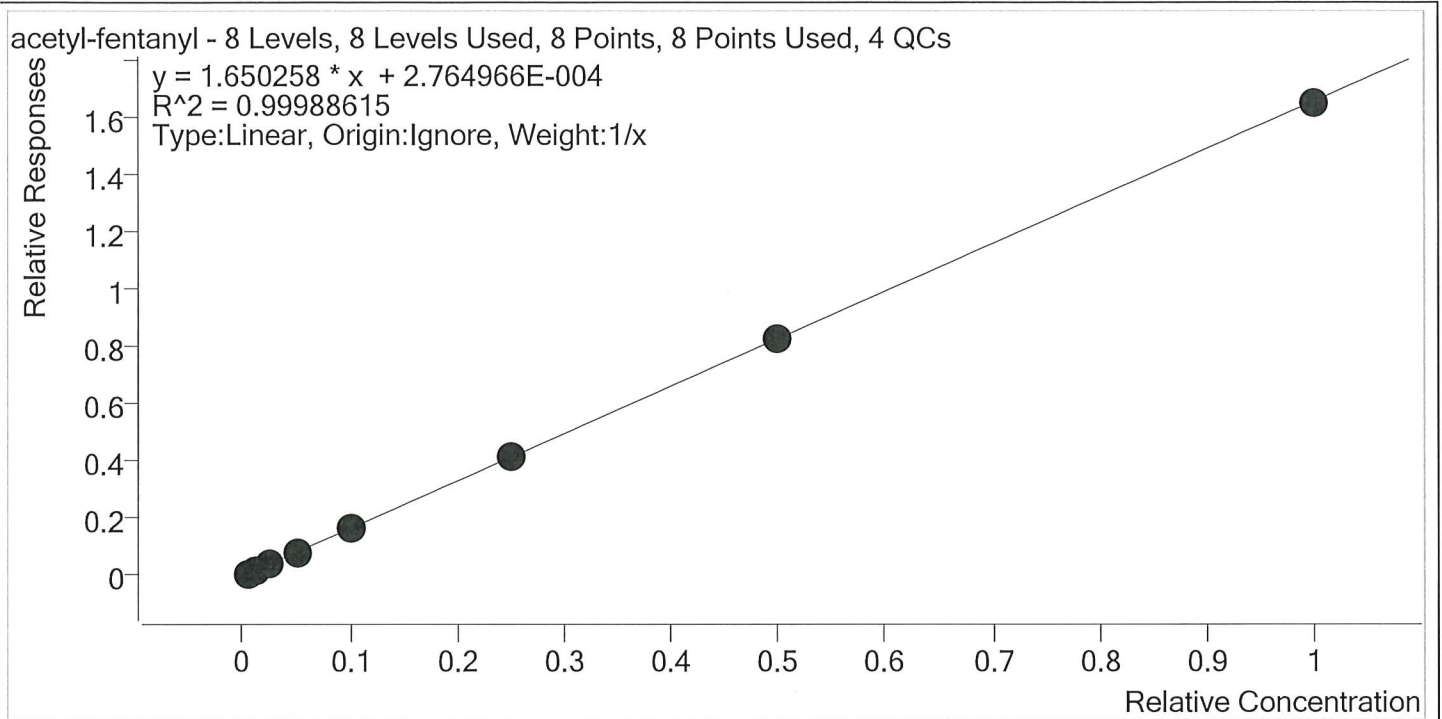


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p2 Cal 1-5ng	1	✓	5.0	4.6	92.2
p2 Cal 2- 10ng	2	✓	10.0	11.1	111.0
p2 Cal 3 -25ng	3	✓	25.0	26.7	107.0
p2 Cal 4-50ng	4	✓	50.0	53.8	107.5
p2 Cal 5-100ng	5	✓	100.0	104.4	104.4
p2 Cal 6-250ng	6	✓	250.0	254.9	102.0
p2 Cal 7-500ng	7	✓	500.0	459.3	91.9
p2 Cal 8-1000ng	8	✓	1000.0	840.2	84.0



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\091720 AM 27 AM 28 P1 P2 SJ comp test\QuantResults\AM 28 P2 casework and external control compounds.batch.bin
Last Cal. Update 9/22/2020 10:13 AM
Analyst Name ISP\datastor
Analyte acetyl-fentanyl **Internal Standard** acetyl-fentanyl-d5

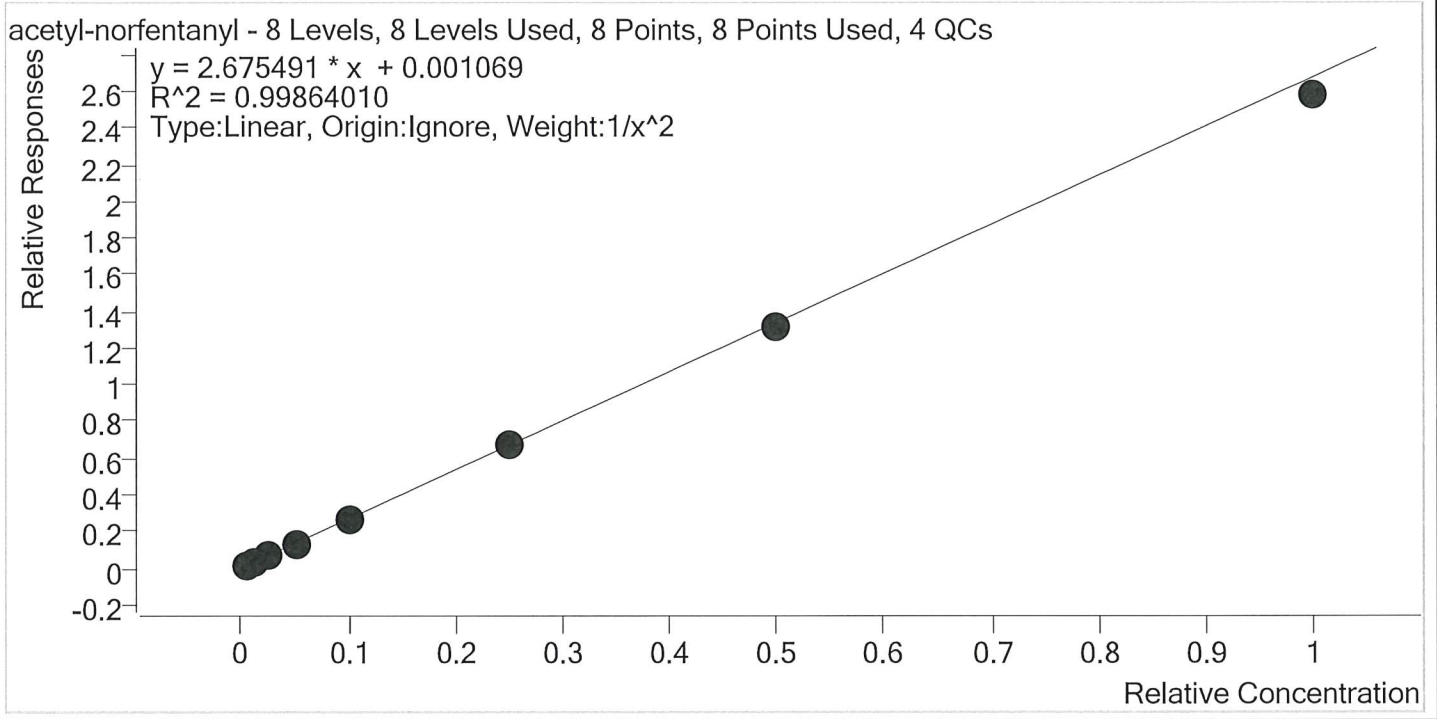


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p2 Cal 1-5ng	1	✓	0.5	0.5	92.3
p2 Cal 2- 10ng	2	✓	1.0	1.1	107.8
p2 Cal 3 -25ng	3	✓	2.5	2.5	100.5
p2 Cal 4-50ng	4	✓	5.0	4.9	98.7
p2 Cal 5-100ng	5	✓	10.0	9.9	99.3
p2 Cal 6-250ng	6	✓	25.0	25.4	101.7
p2 Cal 7-500ng	7	✓	50.0	50.1	100.3
p2 Cal 8-1000ng	8	✓	100.0	99.5	99.5



AM #28 Multi-Drug Quant. Calibration Curve Report

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Last Cal. Update 9/22/2020 10:13 AM
Analyst Name ISP\datastor
Analyte acetyl-norfentanyl **Internal Standard** acetyl-norfentanyl-d5

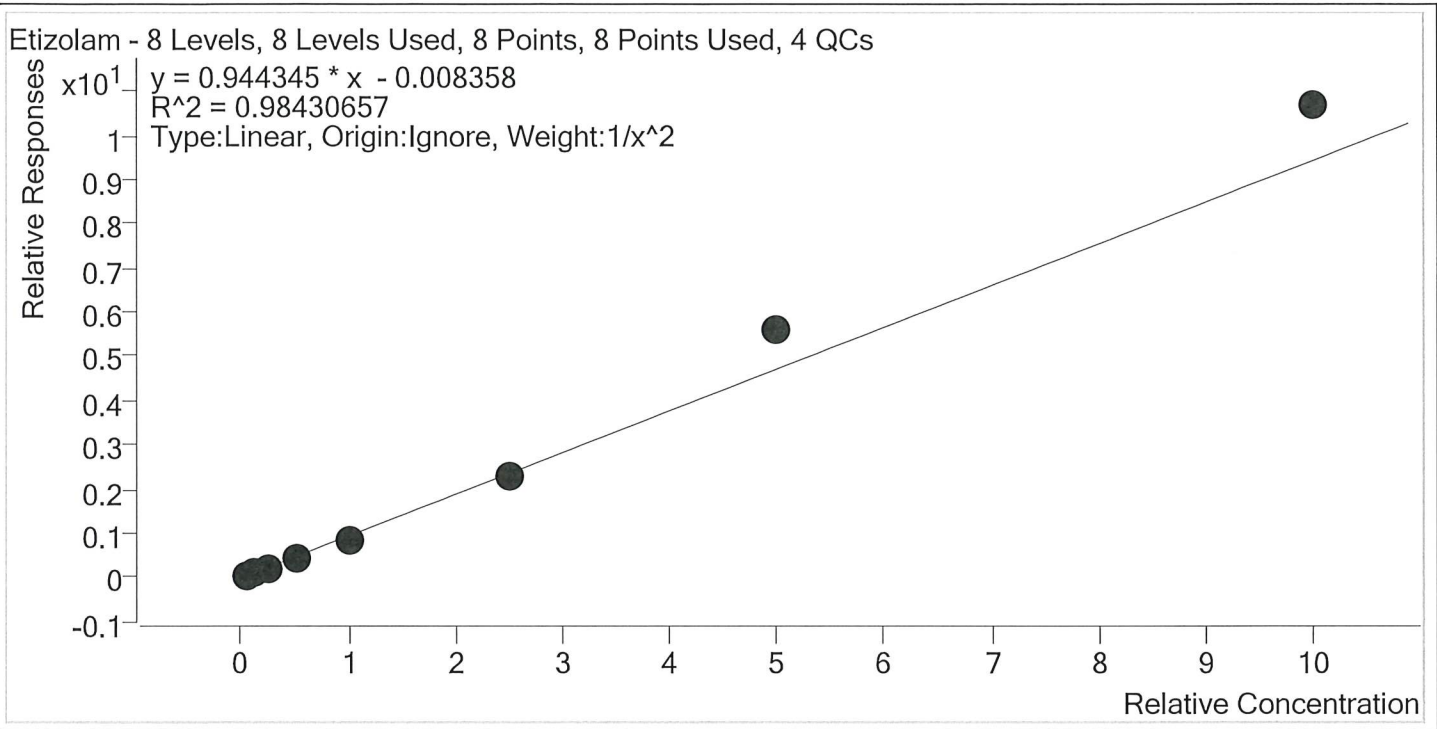


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p2 Cal 1-5ng	1	✓	0.5	0.5	96.5
p2 Cal 2- 10ng	2	✓	1.0	1.1	106.5
p2 Cal 3 -25ng	3	✓	2.5	2.5	100.7
p2 Cal 4-50ng	4	✓	5.0	5.0	100.4
p2 Cal 5-100ng	5	✓	10.0	10.1	101.2
p2 Cal 6-250ng	6	✓	25.0	24.9	99.5
p2 Cal 7-500ng	7	✓	50.0	49.4	98.8
p2 Cal 8-1000ng	8	✓	100.0	96.3	96.3



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Last Cal. Update 9/22/2020 10:13 AM
Analyst Name ISP\datastor
Analyte Etizolam **Internal Standard** Estazolam-D5



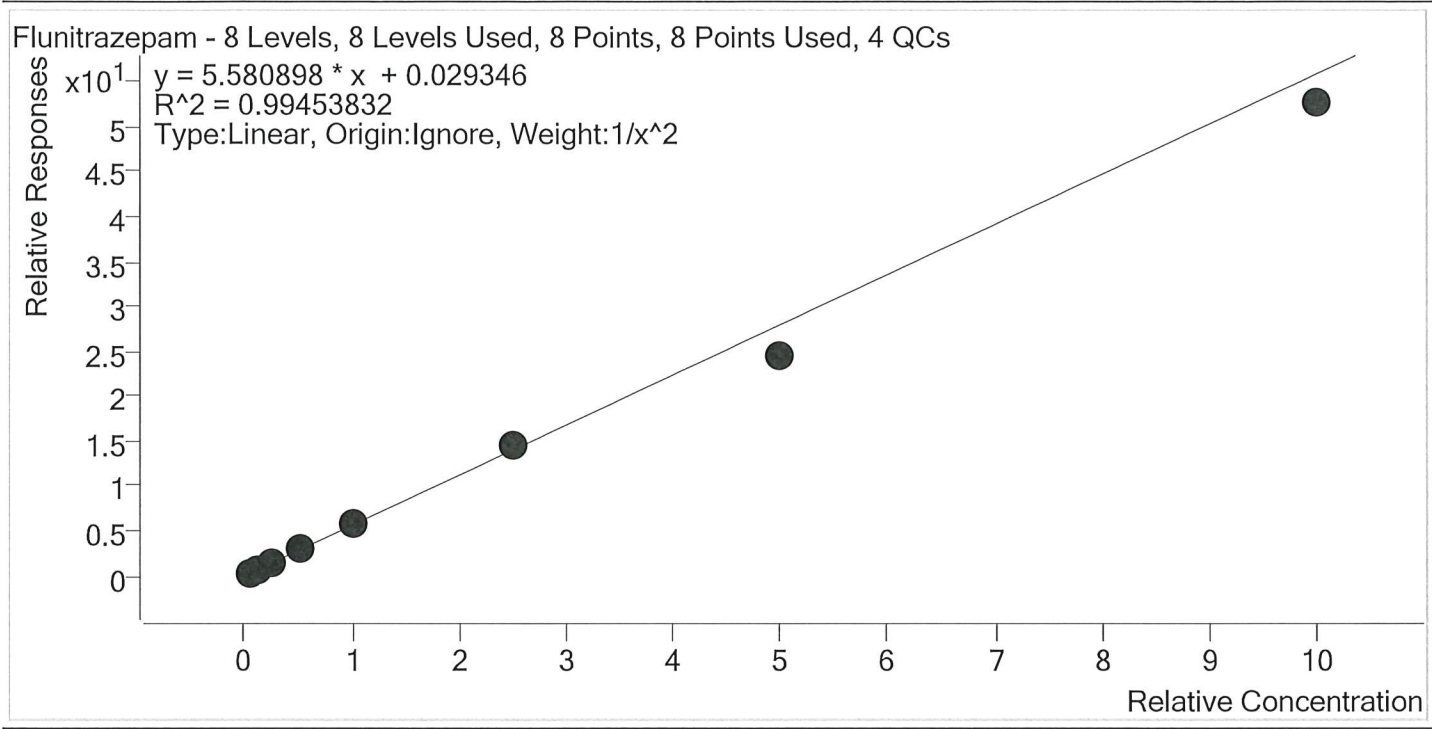
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p2 Cal 1-5ng	1	✓	5.0	5.2	103.6
p2 Cal 2- 10ng	2	✓	10.0	10.0	99.7
p2 Cal 3 -25ng	3	✓	25.0	22.4	89.6
p2 Cal 4-50ng	4	✓	50.0	44.8	89.6
p2 Cal 5-100ng	5	✓	100.0	90.5	90.5
p2 Cal 6-250ng	6	✓	250.0	239.5	95.8
p2 Cal 7-500ng	7	✓	500.0	590.4	118.1
p2 Cal 8-1000ng	8	✓	1000.0	1132.3	113.2

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Last Cal. Update 9/22/2020 10:13 AM
Analyst Name ISP\datastor
Analyte Flunitrazepam **Internal Standard** Flunitrazepam-D7



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p2 Cal 1-5ng	1	✓	5.0	4.8	96.5
p2 Cal 2- 10ng	2	✓	10.0	10.4	103.9
p2 Cal 3 -25ng	3	✓	25.0	26.2	104.9
p2 Cal 4-50ng	4	✓	50.0	52.3	104.5
p2 Cal 5-100ng	5	✓	100.0	103.9	103.9
p2 Cal 6-250ng	6	✓	250.0	260.7	104.3
p2 Cal 7-500ng	7	✓	500.0	438.6	87.7
p2 Cal 8-1000ng	8	✓	1000.0	942.8	94.3

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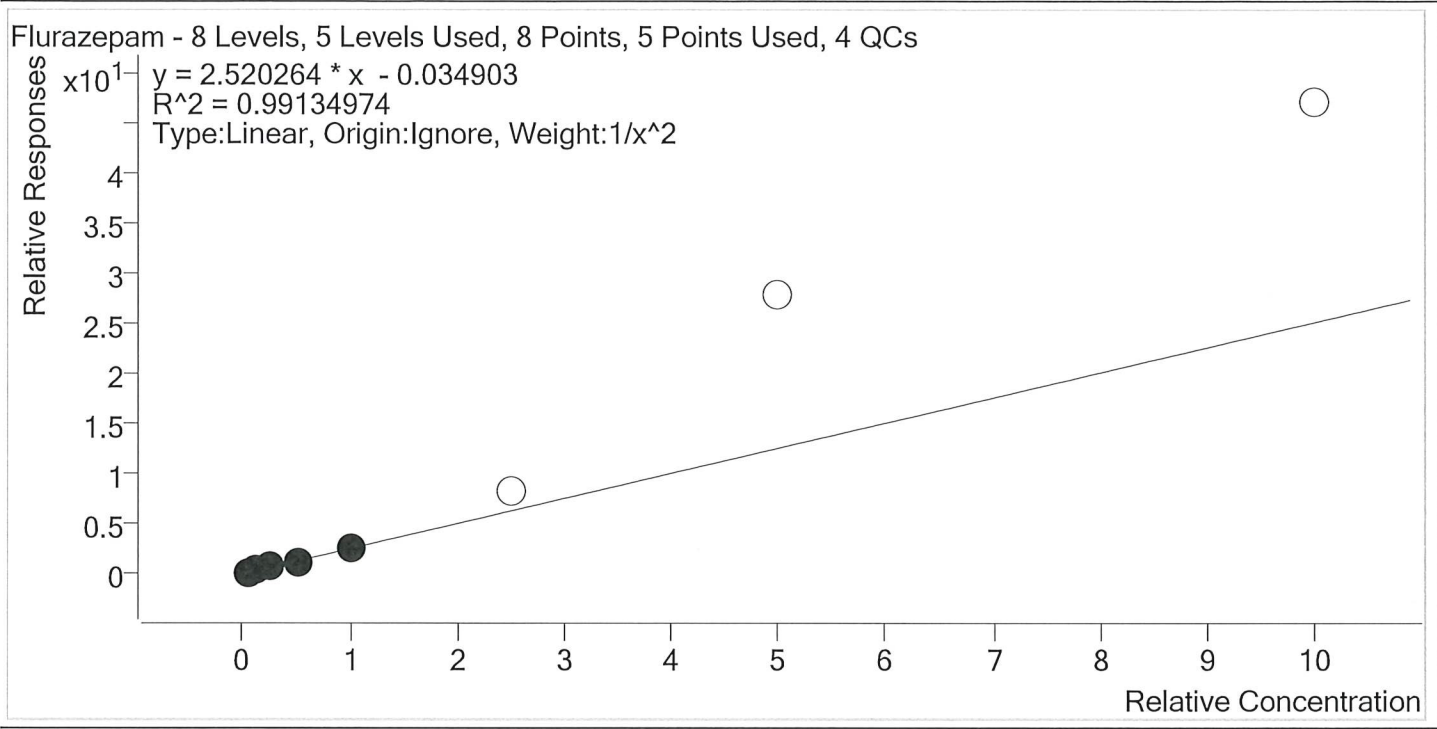
AM #28 Multi-Drug Quant. Calibration Curve Report

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Last Cal. Update 9/22/2020 10:13 AM

Analyst Name ISP\datastor

Analyte Flurazepam **Internal Standard** Flunitrazepam-D7

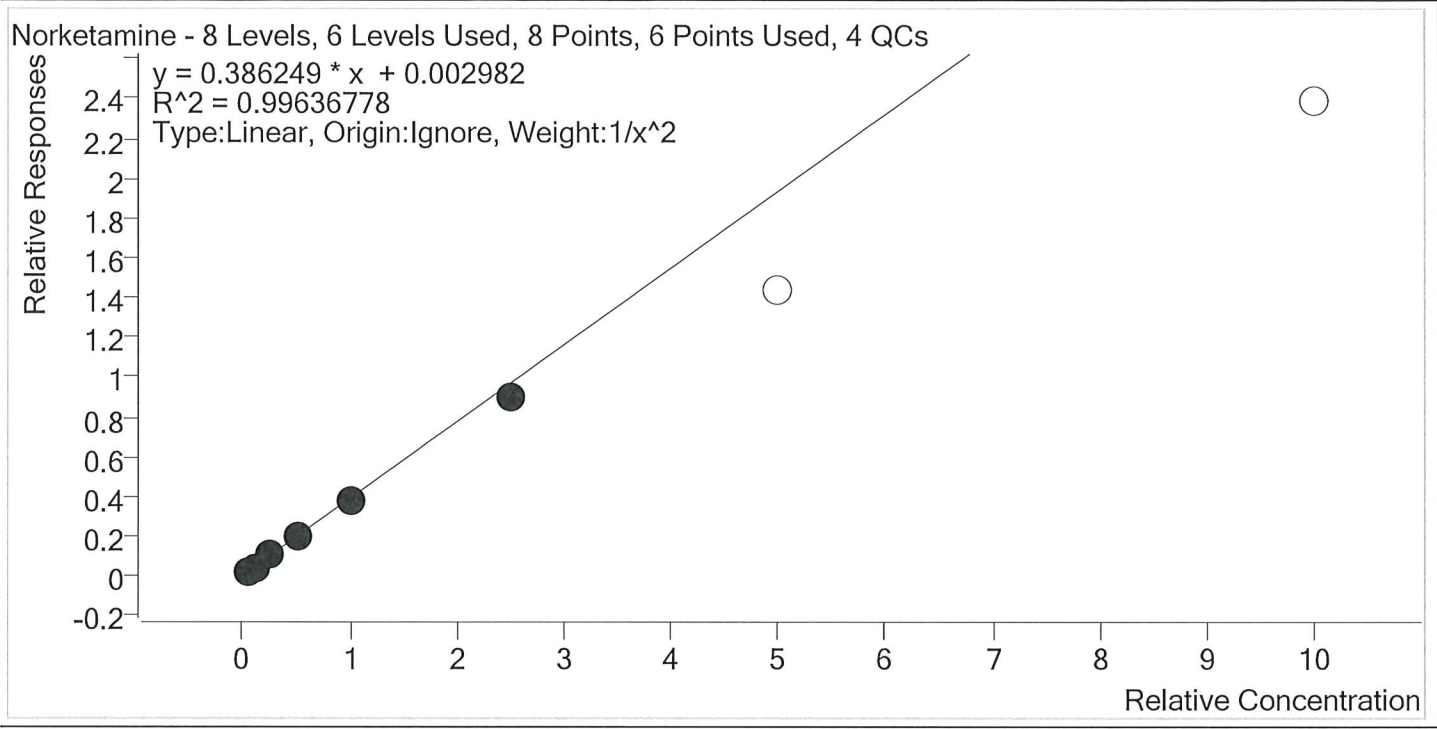


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p2 Cal 1-5ng	1	✓	5.0	5.0	99.4
p2 Cal 2- 10ng	2	✓	10.0	9.9	98.7
p2 Cal 3 -25ng	3	✓	25.0	27.7	110.9
p2 Cal 4-50ng	4	✓	50.0	45.4	90.8
p2 Cal 5-100ng	5	✓	100.0	100.3	100.3
p2 Cal 6-250ng	6	×	250.0	333.5	133.4
p2 Cal 7-500ng	7	×	500.0	1105.5	221.1
p2 Cal 8-1000ng	8	×	1000.0	1875.9	187.6



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Last Cal. Update 9/22/2020 10:13 AM
Analyst Name ISP\datastor
Analyte Norketamine **Internal Standard** acetyl-norfentanyl-d5

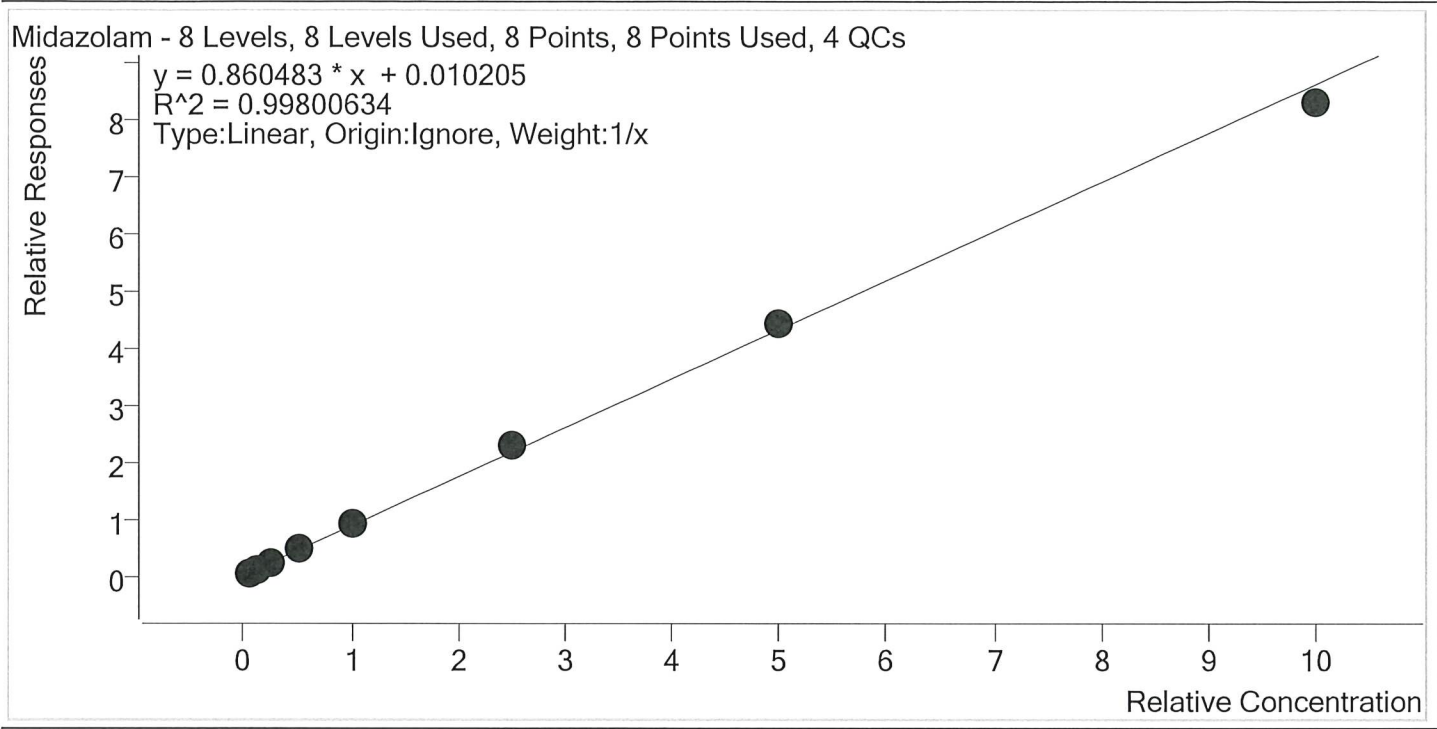


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p2 Cal 1-5ng	1	✓	5.0	4.8	96.7
p2 Cal 2- 10ng	2	✓	10.0	10.5	104.6
p2 Cal 3 -25ng	3	✓	25.0	26.0	104.0
p2 Cal 4-50ng	4	✓	50.0	51.7	103.5
p2 Cal 5-100ng	5	✓	100.0	98.8	98.8
p2 Cal 6-250ng	6	✓	250.0	230.7	92.3
p2 Cal 7-500ng	7	×	500.0	371.8	74.4
p2 Cal 8-1000ng	8	×	1000.0	617.4	61.7



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Last Cal. Update 9/22/2020 10:13 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	4.0	79.7
p2 Cal 2- 10ng	2	✓	10.0	9.8	97.8
p2 Cal 3 -25ng	3	✓	25.0	26.2	104.7
p2 Cal 4-50ng	4	✓	50.0	53.3	106.6
p2 Cal 5-100ng	5	✓	100.0	106.4	106.4
p2 Cal 6-250ng	6	✓	250.0	265.3	106.1
p2 Cal 7-500ng	7	✓	500.0	512.6	102.5
p2 Cal 8-1000ng	8	✓	1000.0	962.6	96.3

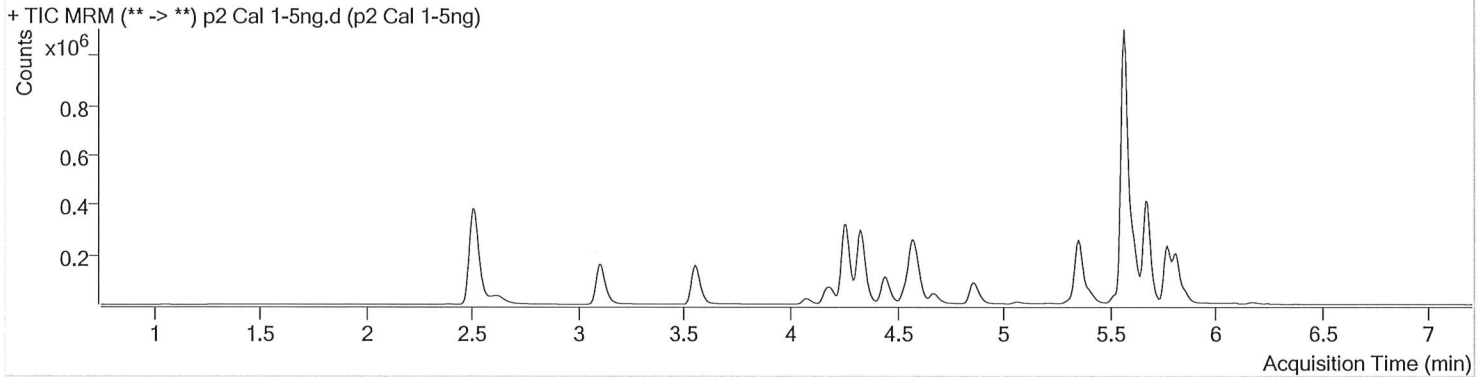


AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020\AM 27-28\091720 AM 27 AM 28 P1 P2 SJ comp test\QuantResults\AM 28 P2 casework and external control compounds.batch.bin
Calibration Last Update 9/22/2020 10:13:31 AM

Instrument	Falco	Data File	p2 Cal 1-5ng.d
Type	Cal	Sample	p2 Cal 1-5ng
Acq. Method	MDQ P2 061720.m	Operator	Sophia Jackson
Sample Position	P6-H12	Comment	
Injection Volume	2		
Acq. Date-Time	9/18/2020 6:06:19 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoflunitrazepam	4.600	53337	2066.16	24.4	367.06	596683	4.6123 ng/ml
acetyl-fentanyl	4.611	1179	54.80	69.0	821.18	149413	0.4613 ng/ml
acetyl-norfentanyl	3.136	6688	352.97	35.1	277.14	478323	0.4827 ng/ml
Etizolam	5.791	31188	67350.16	28.7	26121.56	769082	5.1793 ng/ml
Flunitrazepam	5.621	77199	3978.71	40.4	∞	258564	4.8240 ng/ml
Flurazepam	5.304	23357	24382.36	13.2	4100.61	258564	4.9691 ng/ml
Midazolam	5.778	7634	15177.37	99.2	12752.13	171577	3.9845 ng/ml
Norketamine	4.081	10364	252.53	494.9	2823.55	478323	4.8374 ng/ml

SJ



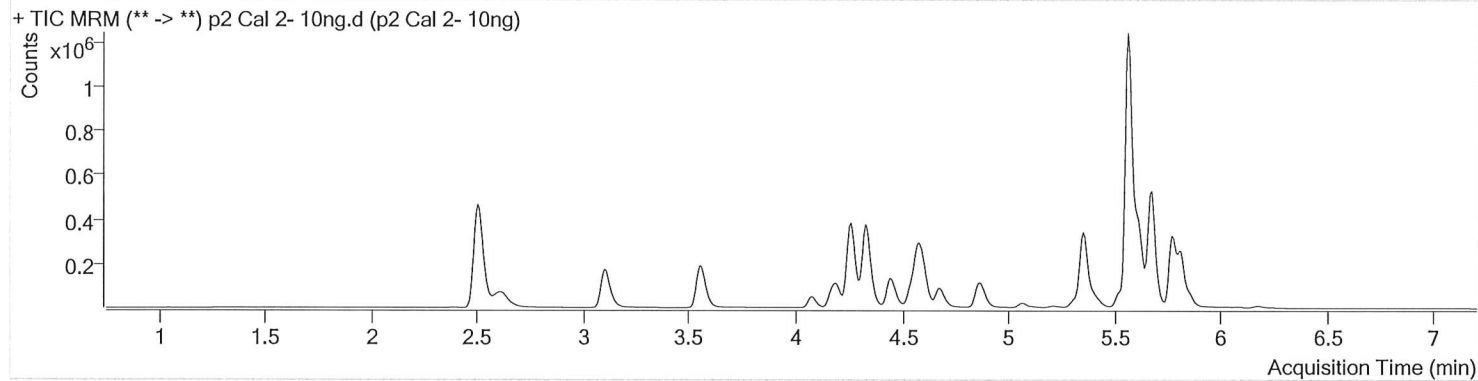
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020\AM 27-28\091720 AM 27 AM 28 P1 P2 SJ comp test\QuantResults\AM 28 P2 casework and external control compounds.batch.bin

Calibration Last Update 9/22/2020 10:13:31 AM

Instrument	Falco	Data File	p2 Cal 2- 10ng.d
Type	Cal	Sample	p2 Cal 2- 10ng
Acq. Method	MDQ P2 061720.m	Operator	Sophia Jackson
Sample Position	P6-G12	Comment	
Injection Volume	2		
Acq. Date-Time	9/18/2020 6:17:13 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoflunitrazepam	4.600	118750	∞	24.0	19933.02	617077	11.1012 ng/ml
acetyl-fentanyl	4.611	3414	∞	64.5	∞	189019	1.0777 ng/ml
acetyl-norfentanyl	3.136	14973	1126.53	34.7	423.16	506382	1.0653 ng/ml
Etizolam	5.791	67402	∞	25.1	∞	785497	9.9715 ng/ml
Flunitrazepam	5.621	167068	161247.42	39.3	∞	274231	10.3904 ng/ml
Flurazepam	5.304	58636	189527.58	13.0	∞	274231	9.8690 ng/ml
Midazolam	5.778	18264	∞	94.7	24997.82	193510	9.7826 ng/ml
Norketamine	4.081	21974	362.59	510.1	5038.99	506382	10.4627 ng/ml

5

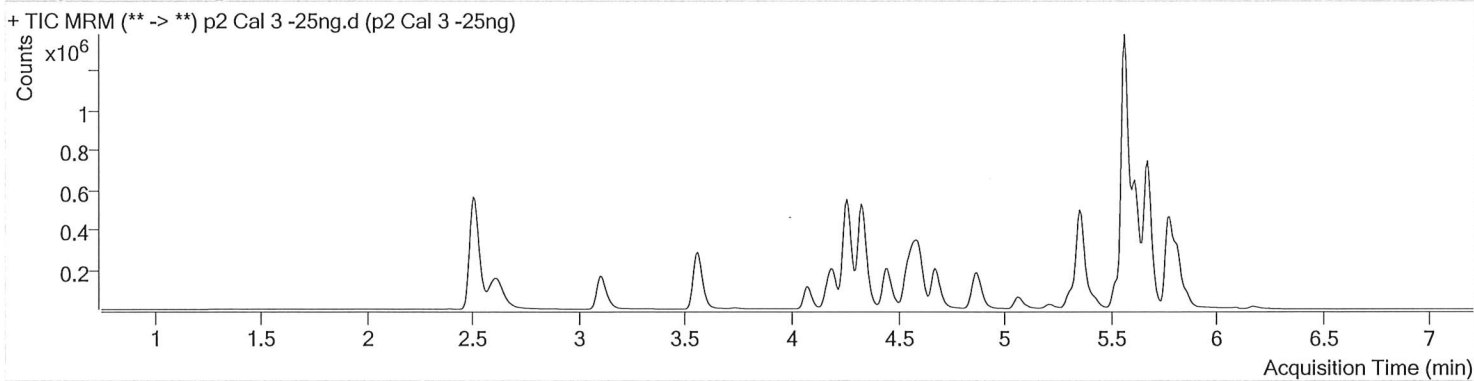


AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020\AM 27-28\091720 AM 27 AM 28 P1 P2 SJ comp test\QuantResults\AM 28 P2 casework and external control compounds.batch.bin
Calibration Last Update 9/22/2020 10:13:31 AM

Instrument	Falco	Data File	p2 Cal 3 -25ng.d
Type	Cal	Sample	p2 Cal 3 -25ng
Acq. Method	MDQ P2 061720.m	Operator	Sophia Jackson
Sample Position	P6-F12	Comment	
Injection Volume	2		
Acq. Date-Time	9/18/2020 6:27:48 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoflunitrazepam	4.600	259837	6599.30	23.9	∞	589328	26.7465 ng/ml
acetyl-fentanyl	4.611	10416	∞	67.8	20798.70	249565	2.5123 ng/ml
acetyl-norfentanyl	3.136	33246	5607.95	36.1	814.47	485767	2.5181 ng/ml
Etizolam	5.791	143810	∞	27.2	69970.87	708060	22.3925 ng/ml
Flunitrazepam	5.614	372244	4635.68	38.3	116243.37	249264	26.2328 ng/ml
Flurazepam	5.304	165505	∞	12.4	30944.70	249264	27.7304 ng/ml
Midazolam	5.778	45938	14542.25	87.3	∞	195164	26.1684 ng/ml
Norketamine	4.075	50237	1137.40	514.5	3413.53	485767	26.0026 ng/ml

09

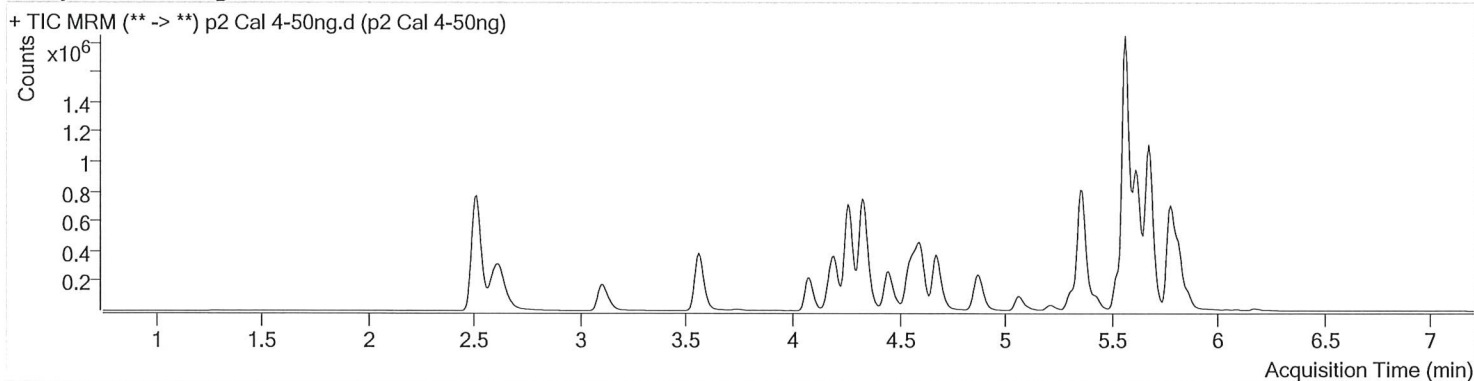


AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020\AM 27-28\091720 AM 27 AM 28 P1 P2 SJ comp test\QuantResults\AM 28 P2 casework and external control compounds.batch.bin
Calibration Last Update 9/22/2020 10:13:31 AM

Instrument	Falco	Data File	p2 Cal 4-50ng.d
Type	Cal	Sample	p2 Cal 4-50ng
Acq. Method	MDQ P2 061720.m	Operator	Sophia Jackson
Sample Position	P6-E12	Comment	
Injection Volume	2		
Acq. Date-Time	9/18/2020 6:38:25 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoflunitrazepam	4.600	543426	18914.23	24.3	2527.06	624549	53.7728 ng/ml
acetyl-fentanyl	4.611	16370	868.30	65.8	17944.96	200378	4.9336 ng/ml
acetyl-norfentanyl	3.136	67534	20232.93	35.6	4091.66	498728	5.0213 ng/ml
Etizolam	5.791	294620	∞	26.2	∞	710821	44.7756 ng/ml
Flunitrazepam	5.621	680123	7830.71	40.8	4891.33	230806	52.2745 ng/ml
Flurazepam	5.304	255887	∞	13.3	∞	230806	45.3751 ng/ml
Midazolam	5.778	92390	∞	89.9	∞	197133	53.2800 ng/ml
Norketamine	4.075	101159	1639.48	504.3	40544.95	498728	51.7419 ng/ml



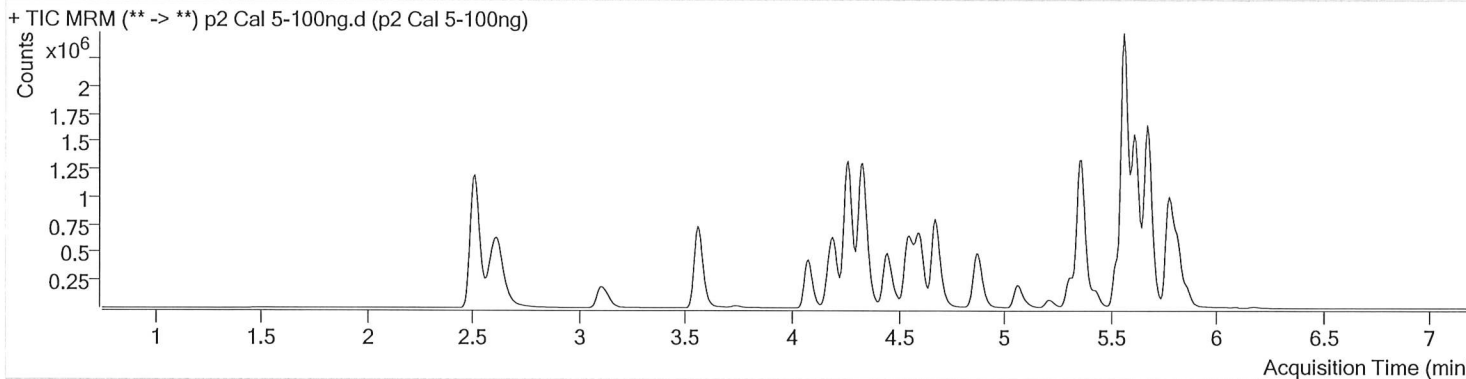
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020\AM 27-28\091720 AM 27 AM 28 P1 P2 SJ comp test\QuantResults\AM 28 P2 casework and external control compounds.batch.bin

Calibration Last Update 9/22/2020 10:13:31 AM

Instrument	Falco	Data File	p2 Cal 5-100ng.d
Type	Cal	Sample	p2 Cal 5-100ng
Acq. Method	MDQ P2 061720.m	Operator	Sophia Jackson
Sample Position	P6-D12	Comment	
Injection Volume	2		
Acq. Date-Time	9/18/2020 6:49:01 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoflunitrazepam	4.600	1006223	8253.87	24.7	93289.55	601217	104.3696 ng/ml
acetyl-fentanyl	4.611	33379	1245.96	64.7	48173.17	203282	9.9331 ng/ml
acetyl-norfentanyl	3.136	142959	17815.00	35.5	9120.85	526107	10.1163 ng/ml
Etizolam	5.791	531234	10187.84	26.5	2077.41	627806	90.4895 ng/ml
Flunitrazepam	5.621	1387865	8005.32	39.2	17332.02	238234	103.8594 ng/ml
Flurazepam	5.304	593631	∞	13.1	∞	238234	100.2554 ng/ml
Midazolam	5.778	167644	1568.98	91.0	3418.46	181132	106.3739 ng/ml
Norketamine	4.081	202404	2136.29	500.0	140026.64	526107	98.8322 ng/ml

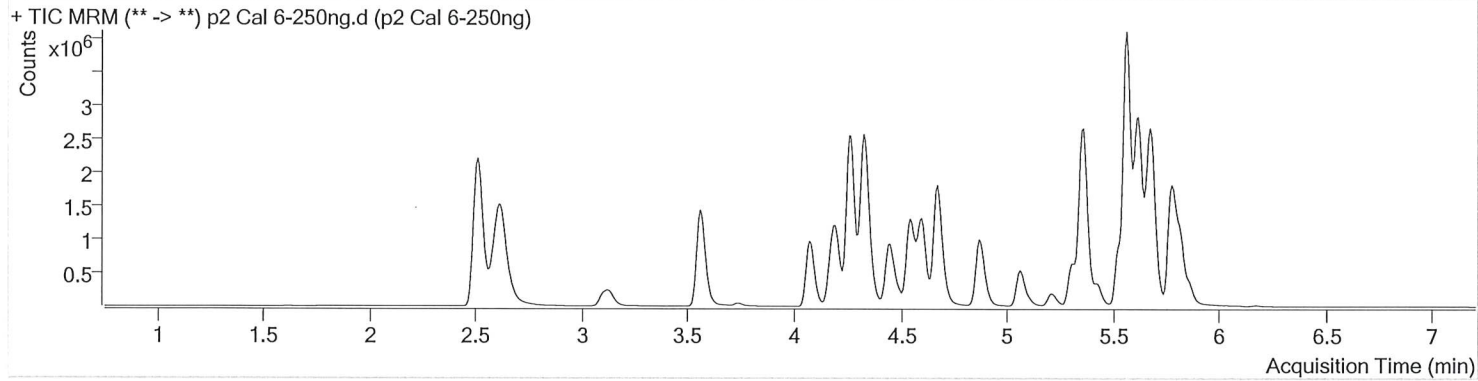


AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020\AM 27-28\091720 AM 27 AM 28 P1 P2 SJ comp test\QuantResults\AM 28 P2 casework and external control compounds.batch.bin
Calibration Last Update 9/22/2020 10:13:31 AM

Instrument	Falco	Data File	p2 Cal 6-250ng.d
Type	Cal	Sample	p2 Cal 6-250ng
Acq. Method	MDQ P2 061720.m	Operator	Sophia Jackson
Sample Position	P6-C12	Comment	
Injection Volume	2		
Acq. Date-Time	9/18/2020 6:59:36 AM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoflunitrazepam	4.600	2374609	8716.38	24.8	3977.54	584201	254.9306 ng/ml
acetyl-fentanyl	4.611	84012	2352.09	67.9	∞	200121	25.4221 ng/ml
acetyl-norfentanyl	3.136	349397	5616.22	36.0	34453.36	524036	24.8804 ng/ml
Etizolam	5.791	1052785	4960.07	27.1	∞	467278	239.4648 ng/ml
Flunitrazepam	5.621	2417096	7636.74	40.9	7173.76	165790	260.7100 ng/ml
Flurazepam	5.304	1387821	2464236.22	13.1	∞	165790	333.5320 ng/ml
Midazolam	5.778	380572	2599.25	88.3	3207.26	165990	265.2627 ng/ml
Norketamine	4.075	468611	7119.82	497.8	204260.02	524036	230.7451 ng/ml

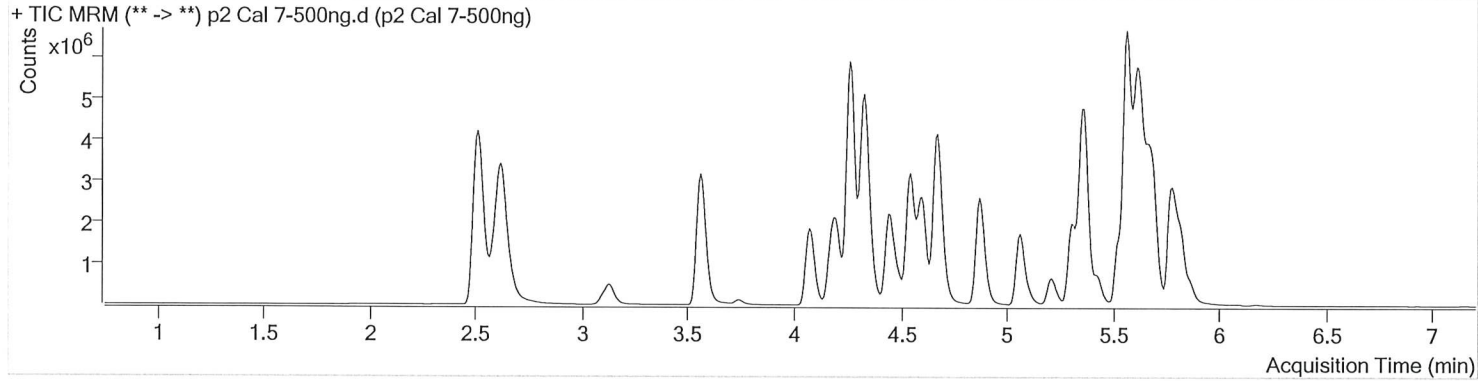


AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020\AM 27-28\091720 AM 27 AM 28 P1 P2 SJ comp test\QuantResults\AM 28 P2 casework and external control compounds.batch.bin
Calibration Last Update 9/22/2020 10:13:31 AM

Instrument	Falco	Data File	p2 Cal 7-500ng.d
Type	Cal	Sample	p2 Cal 7-500ng
Acq. Method	MDQ P2 061720.m	Operator	Sophia Jackson
Sample Position	P6-B12	Comment	
Injection Volume	2		
Acq. Date-Time	9/18/2020 7:10:13 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoflunitrazepam	4.600	5156590	52716.14	24.5	∞	705438	459.2653 ng/ml
acetyl-fentanyl	4.611	256068	3156.54	72.1	444747.35	309410	50.1331 ng/ml
acetyl-norfentanyl	3.136	881919	1545.64	36.0	19120.05	666938	49.3843 ng/ml
Etizolam	5.797	1717416	9797.48	26.7	1983.49	308519	590.3569 ng/ml
Flunitrazepam	5.614	3764500	15070.15	39.5	19065.82	153619	438.5678 ng/ml
Flurazepam	5.298	4274862	∞	13.0	∞	153619	1105.5401 ng/ml
Midazolam	5.778	736265	∞	88.2	4044.45	166543	512.5786 ng/ml
Norketamine	4.075	959642	19302.85	495.0	379749.57	666938	371.7540 ng/ml

AM #28 Multi-Drug Quant. Results



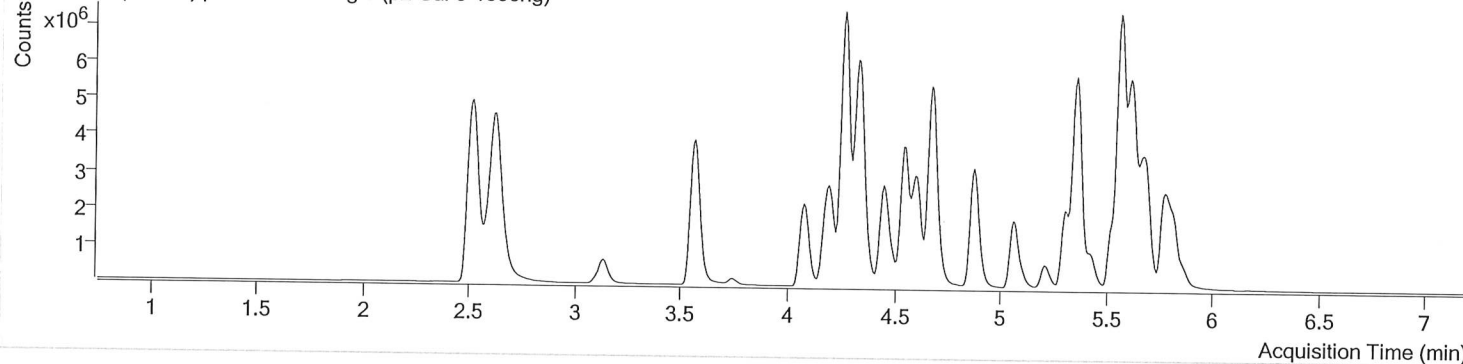
Batch results D:\MassHunter\Data\2020\AM 27-28\091720 AM 27 AM 28 P1 P2 SJ comp test\QuantResults\AM 28 P2 casework and external control compounds.batch.bin

Calibration Last Update 9/22/2020 10:13:31 AM

Instrument	Falco	Data File	p2 Cal 8-1000ng.d
Type	Cal	Sample	p2 Cal 8-1000ng
Acq. Method	MDQ P2 061720.m	Operator	Sophia Jackson
Sample Position	P6-A12	Comment	
Injection Volume	2		
Acq. Date-Time	9/18/2020 7:20:49 AM		
Sample Info.			

Sample Chromatogram

+ TIC MRM (** -> **) p2 Cal 8-1000ng.d (p2 Cal 8-1000ng)



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoflunitrazepam	4.607	6701733	2184.75	24.6	4785.18	501673	840.1590 ng/ml
acetyl-fentanyl	4.618	212265	4024.76	75.8	374170.97	129215	99.5269 ng/ml
acetyl-norfentanyl	3.136	1325795	78702.08	36.3	34438.16	514146	96.3399 ng/ml
Etizolam	5.797	2114765	7592.45	26.5	4178.44	197929	1132.3029 ng/ml
Flunitrazepam	5.621	5538452	2534.71	40.2	∞	105203	942.7902 ng/ml
Flurazepam	5.304	4970074	16254.04	12.8	98780.61	105203	1875.9035 ng/ml
Midazolam	5.778	816959	9985.61	91.1	3122.35	98512	962.5695 ng/ml
Norketamine	4.081	1227667	6453.14	494.2	136427.28	514146	617.4239 ng/ml