REVIEWED
By Celena Shrum at 10:31 am, Jul 01, 2019

TS

6/20/2019

Worklist: 3503

LAB_CASE	ITEM	TASK_ID	DESCRIPTION
M2019-2410	1	155415	AM 28 Blood Multi-Drug Quant Panel 2 by LC-Q(
P2019-1678	1	155416	AM 28 Blood Multi-Drug Quant Panel 2 by LC-Q(
P2019-1679	1	155417	AM 28 Blood Multi-Drug Quant Panel 2 by LC-Q(
P2019-1718	1	155418	AM 28 Blood Multi-Drug Quant Panel 2 by LC-Q(
P2019-1720	1	155419	AM 28 Blood Multi-Drug Quant Panel 2 by LC-Q(
P2019-1746	2	155420	AM 28 Blood Multi-Drug Quant Panel 2 by LC-Q(

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

Extraction Date: 06/24/19
Plate lot#: Item #:IDP-112 Lot:190124

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

Mobile phase A: 5mM Amm Form + 0.01% FA
0.5M Ammonium Hydroxide
Blank Blood Lot: 445283-1
LCMS-QQQ ID: 069901

Mobile phase B: 0.01% Formic Acid in MeOH
Ethyl Acetate 20% Methanol in Water
Column: ~~Agilent 120 EC-C18 (2.1x 100-4um)~~
Agilent 120 EC-C18 (2.1 x 100-2.7um) 09/16/19 TS

Pre-Analytic:

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

Analytic:

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

Post-Analytic

☒ 1. Create batch and process data.
Worklist path: *D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS*
Batch Name: *MDQ P2 wklst 3503 TS*
☒ 2. Make necessary changes to integration limits
☒ 3. Integration linear and R^2 values ≥0.98 for each analyte.
☒ 4. For unknown samples and controls: response ratio within 20% of average of controls and standards, RT within +/- 5% (tramadol RT +/-2%), S/N for primary transition >10 and secondary transitions >5.
☒ 5. Did all QCs pass for each analyte? Y / N _____ Add Control data to QC tracking spreadsheet.
☒ 6. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports.

COMMENTS:
Compounds evaluated: 7-aminoflunitrazepam, Chlorpheniramine, Etizolam, Flurazepam, Midazolam, Nortriptyline, Paroxetine, Levamisole
Curves limited: Chlorpheniramine 25-500, Flurazepam 5-250

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Idaho State Police Forensic Services

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

Methanol External Control Solution (Lot: 020419)

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

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

Blood External Control Solution (Lot: WS020419)

50 ul of methanol external control solution was added to 9950 ul of blood.
Approximately 50ng/mL of each compound.

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

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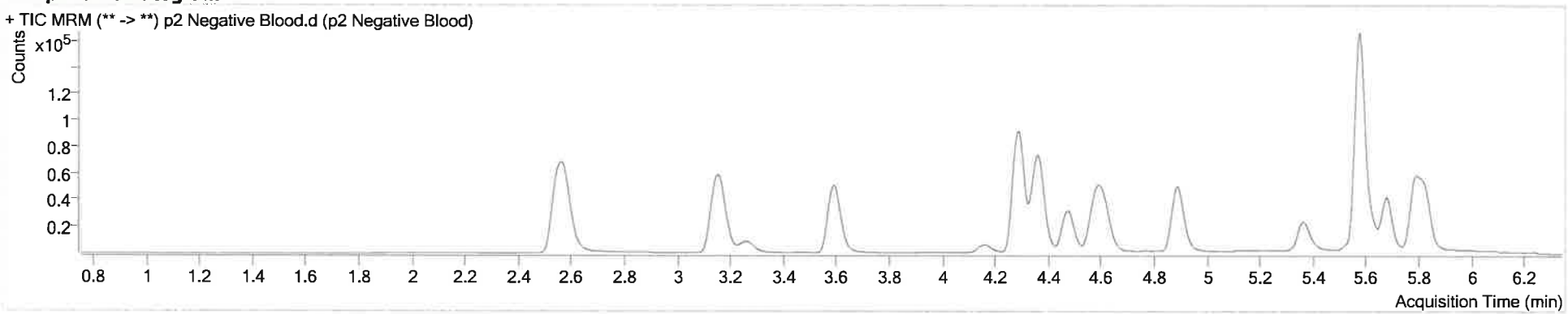
AM #28 Multi-Drug Quant. Results

Batch results	D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P2 wklst 3503 TS.batch.bin
Calibration Last Update	6/25/2019 9:50:02 AM

Instrument	Falco	**Data File**	p2 Negative Blood.d
Type	Sample	**Sample**	p2 Negative Blood
Acq. Method	MDQ P2 Combined 040919.m	**Operator**	
Sample Position	P1-E2	**Comment**	
Injection Volume	1		
Acq. Date-Time	6/24/2019 2:40:49 PM		
Sample Info.			

Sample Chromatogram

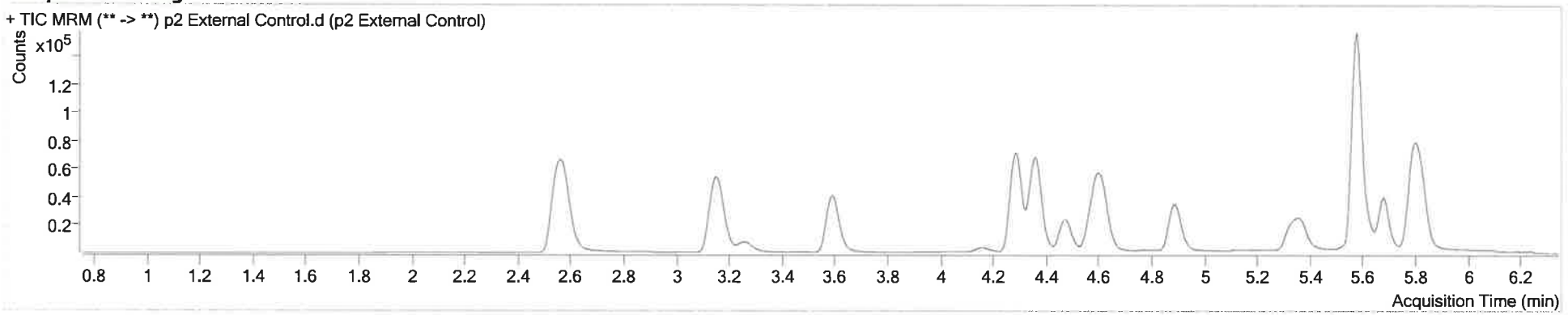


AM #28 Multi-Drug Quant. Results

Batch results	D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P2 wklst 3503 TS.batch.bin
Calibration Last Update	6/25/2019 9:50:02 AM

Instrument	Falco	**Data File**	p2 External Control.d
Type	Sample	**Sample**	p2 External Control
Acq. Method	MDQ P2 Combined 040919.m	**Operator**	
Sample Position	P1-F2	**Comment**	
Injection Volume	1		
Acq. Date-Time	6/24/2019 3:01:43 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoflunitrazepam	4.614	62873	10158.43	24.4	3539.17	90041	37.8947 ng/ml
Etizolam	5.802	42217	37044.23	27.0	∞	90710	38.4813 ng/ml
Flurazepam	5.324	43527	31107.83	12.8	∞	13834	15.5145 ng/ml
Midazolam	5.810	17113	∞	85.7	31606.83	58692	41.1869 ng/ml

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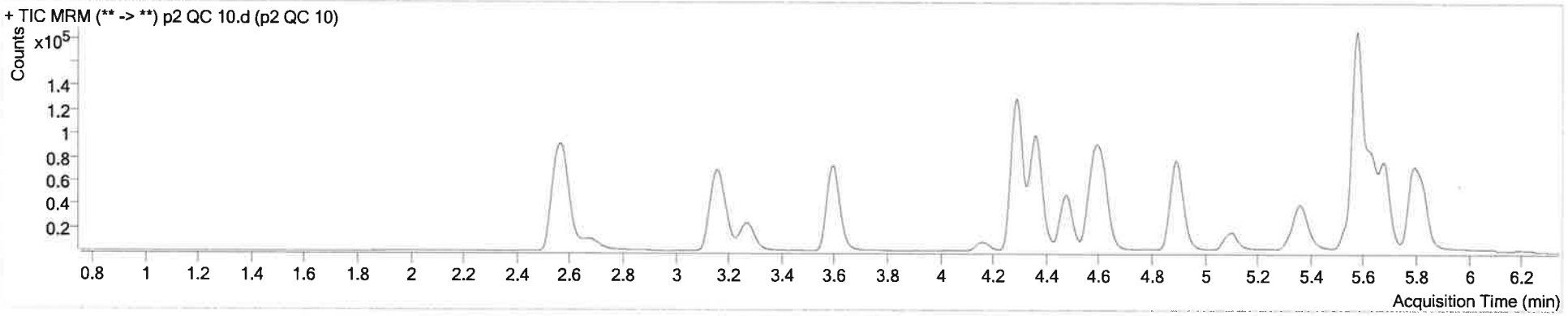
AM #28 Multi-Drug Quant. Results

Batch results	D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P2 wklst 3503 TS.batch.bin
Calibration Last Update	6/25/2019 2:43:04 PM

Instrument	Falco	**Data File**	p2 QC 10.d
Type	QC	**Sample**	p2 QC 10
Acq. Method	MDQ P2 Combined 040919.m	**Operator**	
Sample Position	P1-A2	**Comment**	
Injection Volume	1		
Acq. Date-Time	6/24/2019 12:56:16 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoflunitrazepam	4.614	22423	2404.16	25.0	870.95	116115	9.6762 ng/ml
~~Chlorpheniramine~~	~~5.105~~	~~51135~~	~~5615.60~~			~~64866~~	~~17.9498~~ ng/ml Outside curve range. TS
Etizolam	5.802	8127	5529.61	27.7	1308.21	81017	8.3589 ng/ml
Flurazepam	5.324	24362	61104.32	12.9	3783.87	14091	9.0366 ng/ml
Levamisole	2.680	20525	4853.77	83.4	1199.60	336296	9.8105 ng/ml
Midazolam	5.803	5914	∞	90.1	7977.99	87225	9.4348 ng/ml
Nortriptyline	5.698	5529	164.29	36.3	289.80	20988	10.0625 ng/ml
Paroxetine	5.564	1660	290.75	49.6	492.72	38917	8.4091 ng/ml

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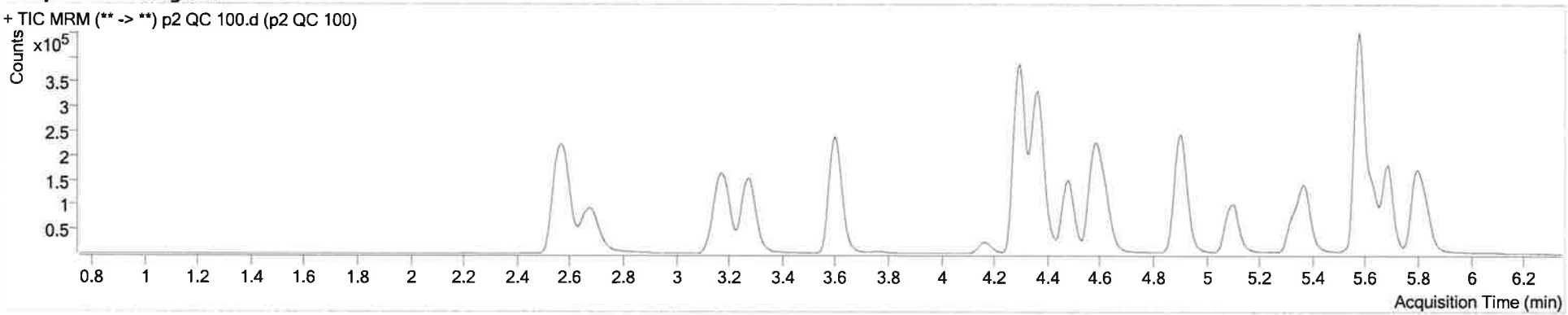
AM #28 Multi-Drug Quant. Results

Batch results	D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P2 wklst 3503 TS.batch.bin
Calibration Last Update	6/25/2019 2:43:04 PM

Instrument	Falco	**Data File**	p2 QC 100.d
Type	QC	**Sample**	p2 QC 100
Acq. Method	MDQ P2 Combined 040919.m	**Operator**	
Sample Position	P1-B2	**Comment**	
Injection Volume	1		
Acq. Date-Time	6/24/2019 1:17:10 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoflunitrazepam	4.614	173499	10933.73	24.5	722.26	88361	108.5730 ng/ml
Chlorpheniramine	5.105	356374	4317.36	0.4	58.85	19380	310.4130 ng/ml
Etizolam	5.802	80938	2338.87	27.2	∞	90782	73.6407 ng/ml
Flurazepam	5.324	184025	16406.88	13.4	23080.96	12704	67.3291 ng/ml
Levamisole	2.674	228368	36019.47	82.1	31507.37	304771	98.3229 ng/ml
Midazolam	5.803	56484	3263.97	90.3	3085.00	82683	96.7488 ng/ml
Nortriptyline	5.698	9053	∞	35.2	∞	3317	103.2296 ng/ml
Paroxetine	5.564	3030	191.64	47.7	∞	16174	32.0686 ng/ml

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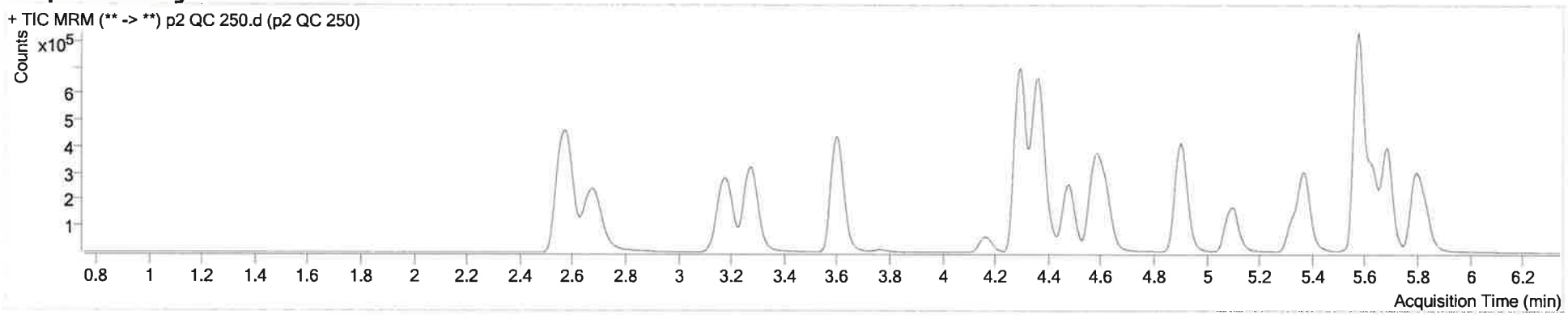
AM #28 Multi-Drug Quant. Results

Batch results	D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P2 wklst 3503 TS.batch.bin
Calibration Last Update	6/25/2019 2:43:04 PM

Instrument	Falco	**Data File**	p2 QC 250.d
Type	QC	**Sample**	p2 QC 250
Acq. Method	MDQ P2 Combined 040919.m	**Operator**	
Sample Position	P1-C2	**Comment**	
Injection Volume	1		
Acq. Date-Time	6/24/2019 1:38:05 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoflunitrazepam	4.614	483154	6668.65	25.0	8435.67	101269	265.3978 ng/ml
Chlorpheniramine	5.105	607409	5856.38	0.4	196.15	19101	533.2586 ng/ml
Etizolam	5.802	182940	∞	27.4	∞	88012	171.5737 ng/ml
Flurazepam	5.324	307994	61556.26	13.3	17794.99	12996	109.4303 ng/ml
Levamisole	2.680	608193	50290.91	81.5	∞	303602	259.5811 ng/ml
Midazolam	5.810	138227	2692.71	88.1	4550.57	81487	240.5123 ng/ml
Nortriptyline	5.698	35940	1273.65	36.0	9115.36	5770	235.4416 ng/ml
Paroxetine	5.564	12336	3917.42	51.9	6259.42	12964	157.0532 ng/ml

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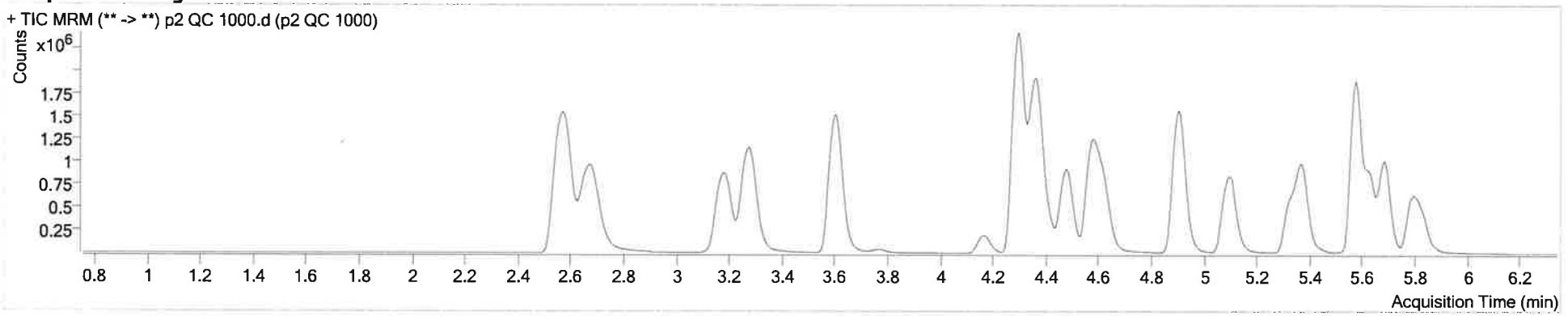
AM #28 Multi-Drug Quant. Results

Batch results	D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P2 wklst 3503 TS.batch.bin
Calibration Last Update	6/25/2019 2:43:04 PM

Instrument	Falco	**Data File**	p2 QC 1000.d
Type	QC	**Sample**	p2 QC 1000
Acq. Method	MDQ P2 Combined 040919.m	**Operator**	
Sample Position	P1-D2	**Comment**	
Injection Volume	1		
Acq. Date-Time	6/24/2019 1:58:59 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.		
7-aminoflunitrazepam	4.621	1738797	34663.79	25.0	4105.91	96152	1009.0579	ng/ml	
~~Chlorpheniramine~~	~~5.098~~	~~3039459~~	~~∞~~	~~0.4~~	~~292.72~~	~~13908~~	~~3636.3656~~	~~ng/ml~~	Outside curve range. TS
Etizolam	5.802	458392	6387.01	26.8	1188.22	66401	569.6375	ng/ml	
~~Flurazepam~~	~~5.324~~	~~1487970~~	~~∞~~	~~13.1~~	~~23725.31~~	~~10052~~	~~677.5419~~	~~ng/ml~~	outside curve range. TS
Levamisole	2.674	2489139	∞	81.5	168152.29	297099	1079.3922	ng/ml	
Midazolam	5.810	423218	6354.05	89.2	4068.28	59648	1006.6064	ng/ml	
Nortriptyline	5.698	63854	987.98	37.0	1686.90	2592	931.0732	ng/ml	
Paroxetine	5.564	24148	4311.59	50.6	9720.51	11059	358.5660	ng/ml	

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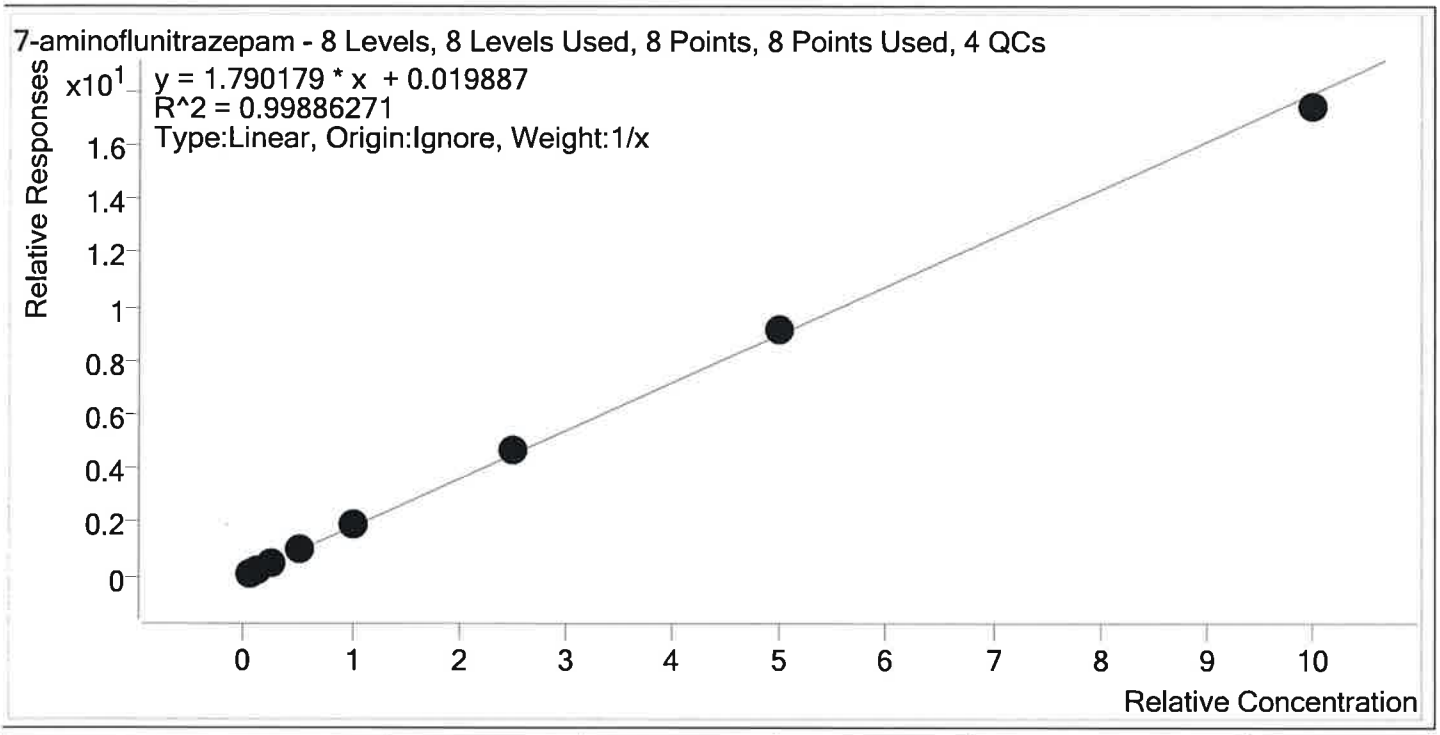
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P2 wklst 3503 TS.batch.bin
Last Cal. Update	6/25/2019 9:50 AM
Analyst Name	ISP\datastor
Analyte	7-aminoflunitrazepam
Internal Standard	7-aminoflunitrazepam-D7



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p2 Cal 1-5ng	1	✓	5.0	4.4	87.2
p2 Cal 2- 10ng	2	✓	10.0	9.8	97.6
p2 Cal 3 -25ng	3	✓	25.0	25.1	100.6
p2 Cal 4-50ng	4	✓	50.0	52.3	104.7
p2 Cal 5-100ng	5	✓	100.0	106.9	106.9
p2 Cal 6-250ng	6	✓	250.0	260.1	104.0
p2 Cal 7-500ng	7	✓	500.0	509.2	101.8
p2 Cal 8-1000ng	8	✓	1000.0	972.3	97.2

Generated at 9:50 AM on 6/25/2019

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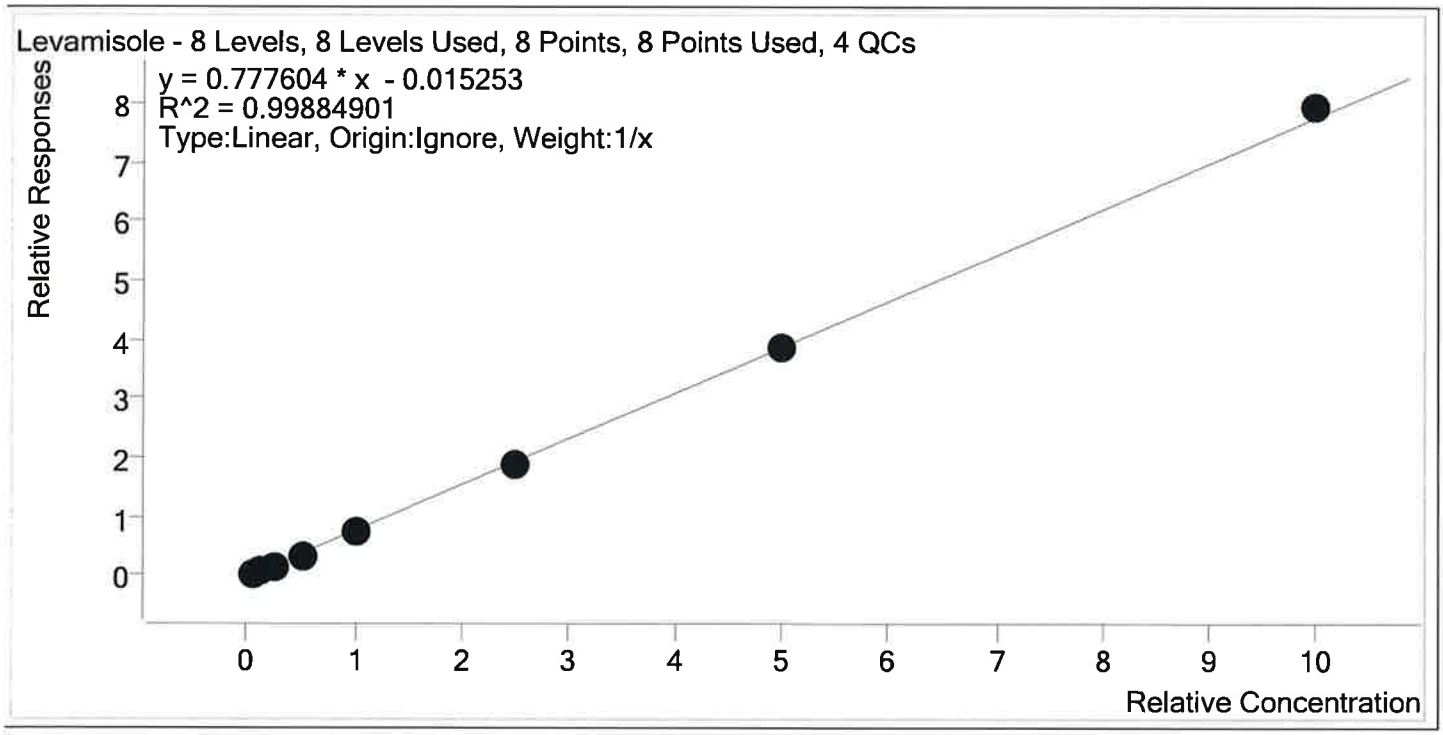
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P2 wklst 3503 TS.batch.bin
Last Cal. Update	6/25/2019 2:43 PM
Analyst Name	ISP\datastor
Analyte	Levamisole
Internal Standard	Pseudoephedrine-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p2 Cal 1-5ng	1	✓	5.0	6.0	120.3
p2 Cal 2- 10ng	2	✓	10.0	10.6	105.8
p2 Cal 3 -25ng	3	✓	25.0	22.7	90.7
p2 Cal 4-50ng	4	✓	50.0	45.1	90.1
p2 Cal 5-100ng	5	✓	100.0	94.7	94.7
p2 Cal 6-250ng	6	✓	250.0	242.1	96.8
p2 Cal 7-500ng	7	✓	500.0	495.9	99.2
p2 Cal 8-1000ng	8	✓	1000.0	1023.0	102.3

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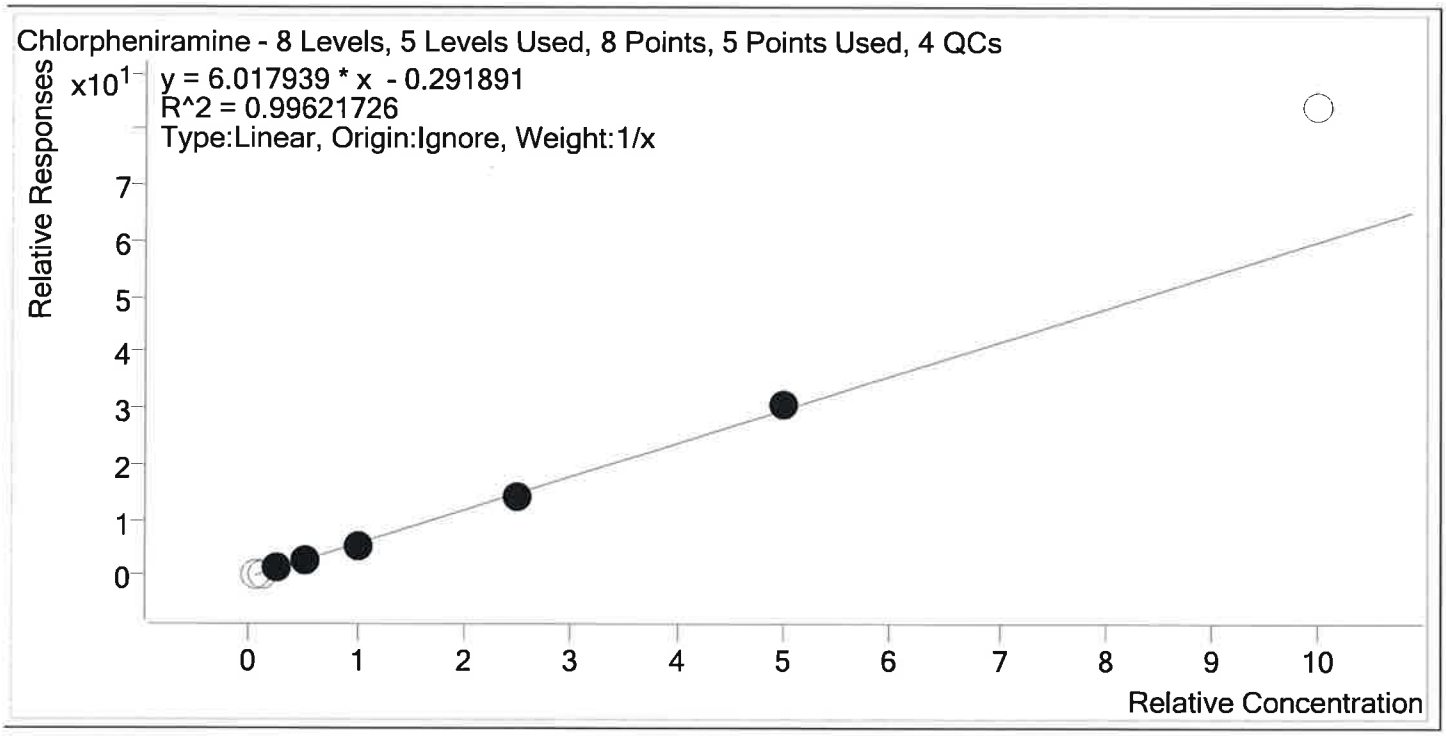
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P2 wklst 3503 TS.batch.bin
Last Cal. Update	6/25/2019 10:05 AM
Analyst Name	ISP\datastor
Analyte	Chlorpheniramine
Internal Standard	Imipramine-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p2 Cal 1-5ng	1	×	5.0	10.6	212.3
p2 Cal 2- 10ng	2	×	10.0	14.0	140.2
p2 Cal 3 -25ng	3	✓	25.0	28.6	114.3
p2 Cal 4-50ng	4	✓	50.0	46.7	93.4
p2 Cal 5-100ng	5	✓	100.0	93.2	93.2
p2 Cal 6-250ng	6	✓	250.0	239.1	95.6
p2 Cal 7-500ng	7	✓	500.0	517.4	103.5
p2 Cal 8-1000ng	8	×	1000.0	1399.9	140.0

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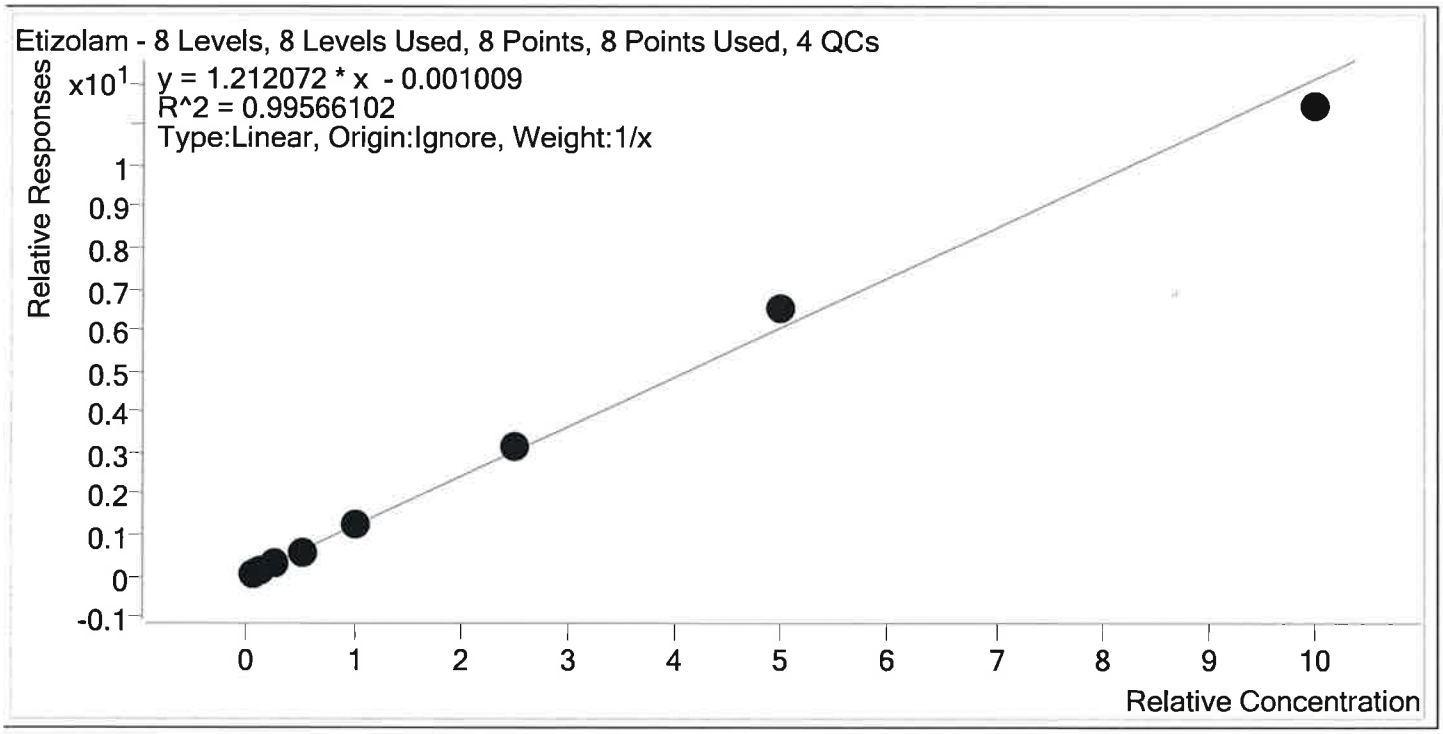
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P2 wklst 3503 TS.batch.bin
Last Cal. Update	6/25/2019 9:50 AM
Analyst Name	ISP\datastor
Analyte	Etizolam
Internal Standard	Estazolam-D5

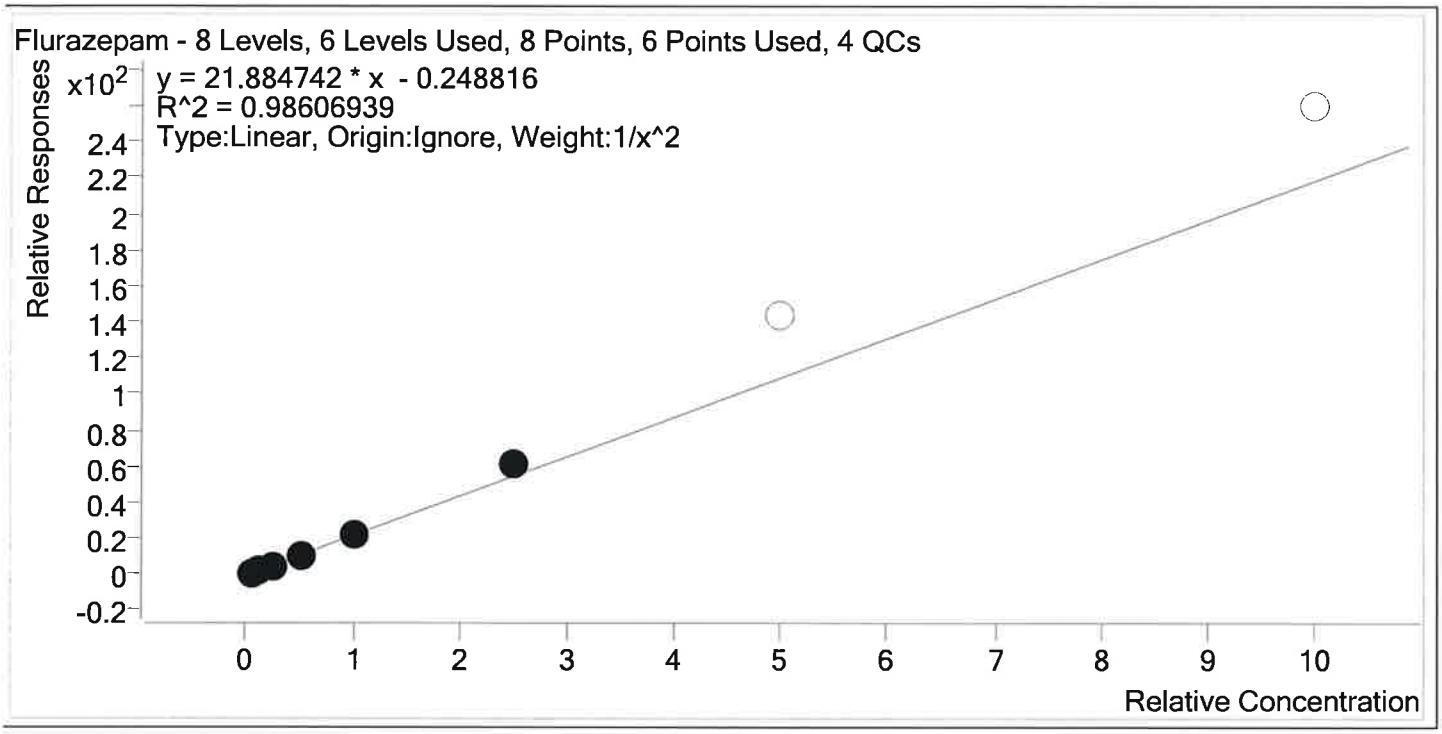


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p2 Cal 1-5ng	1	✓	5.0	5.0	100.8
p2 Cal 2- 10ng	2	✓	10.0	9.7	97.5
p2 Cal 3 -25ng	3	✓	25.0	22.7	90.9
p2 Cal 4-50ng	4	✓	50.0	49.2	98.5
p2 Cal 5-100ng	5	✓	100.0	104.7	104.7
p2 Cal 6-250ng	6	✓	250.0	261.9	104.8
p2 Cal 7-500ng	7	✓	500.0	542.4	108.5
p2 Cal 8-1000ng	8	✓	1000.0	944.3	94.4

TS

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P2 wklst 3503 TS.batch.bin
Last Cal. Update	6/25/2019 9:50 AM
Analyst Name	ISP\datastor
Analyte	Flurazepam
Internal Standard	Flunitrazepam-D7

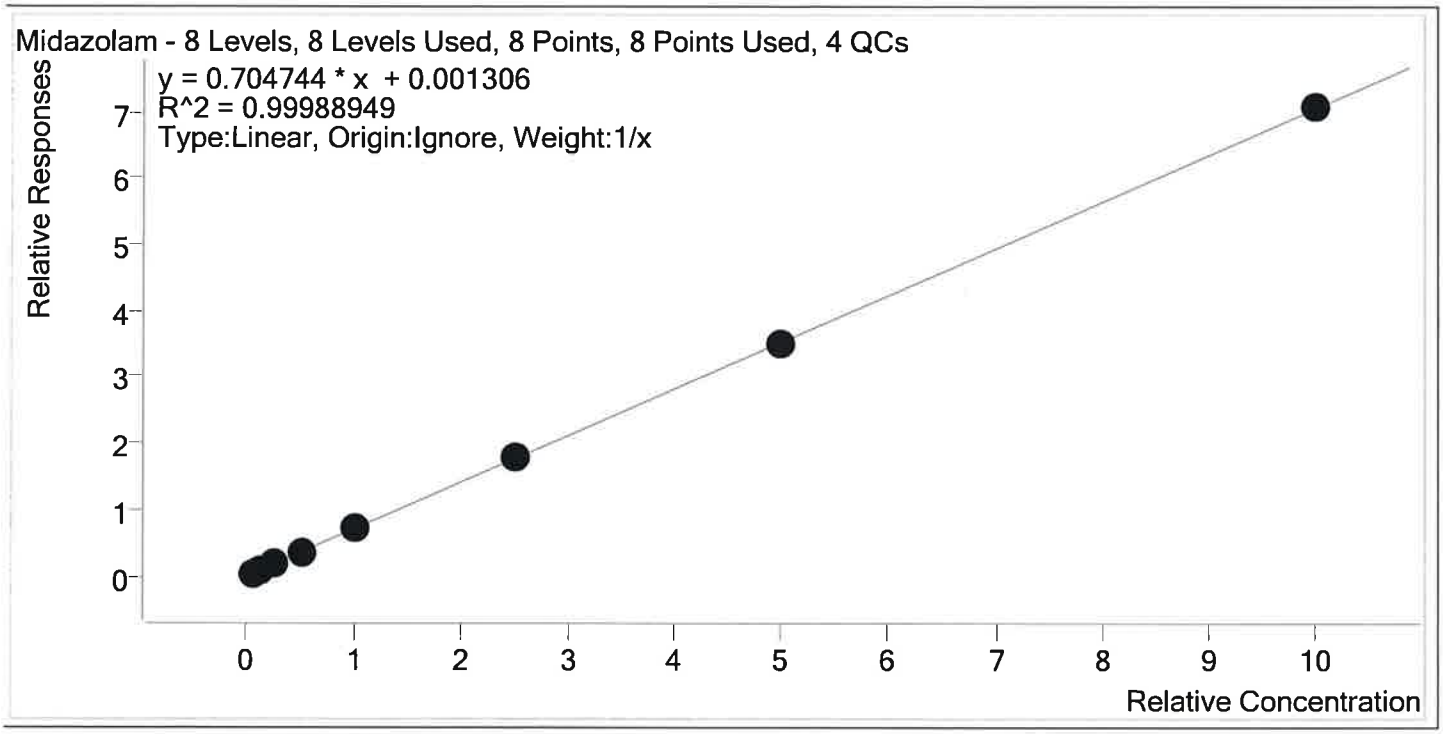


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p2 Cal 1-5ng	1	✓	5.0	5.2	103.1
p2 Cal 2- 10ng	2	✓	10.0	10.0	99.8
p2 Cal 3 -25ng	3	✓	25.0	20.9	83.6
p2 Cal 4-50ng	4	✓	50.0	50.4	100.7
p2 Cal 5-100ng	5	✓	100.0	99.1	99.1
p2 Cal 6-250ng	6	✓	250.0	284.2	113.7
p2 Cal 7-500ng	7	×	500.0	660.4	132.1
p2 Cal 8-1000ng	8	×	1000.0	1188.6	118.9

TS

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P2 wklst 3503 TS.batch.bin
Last Cal. Update	6/25/2019 9:50 AM
Analyst Name	ISP\datastor
Analyte	Midazolam
Internal Standard	Midazolam-D4

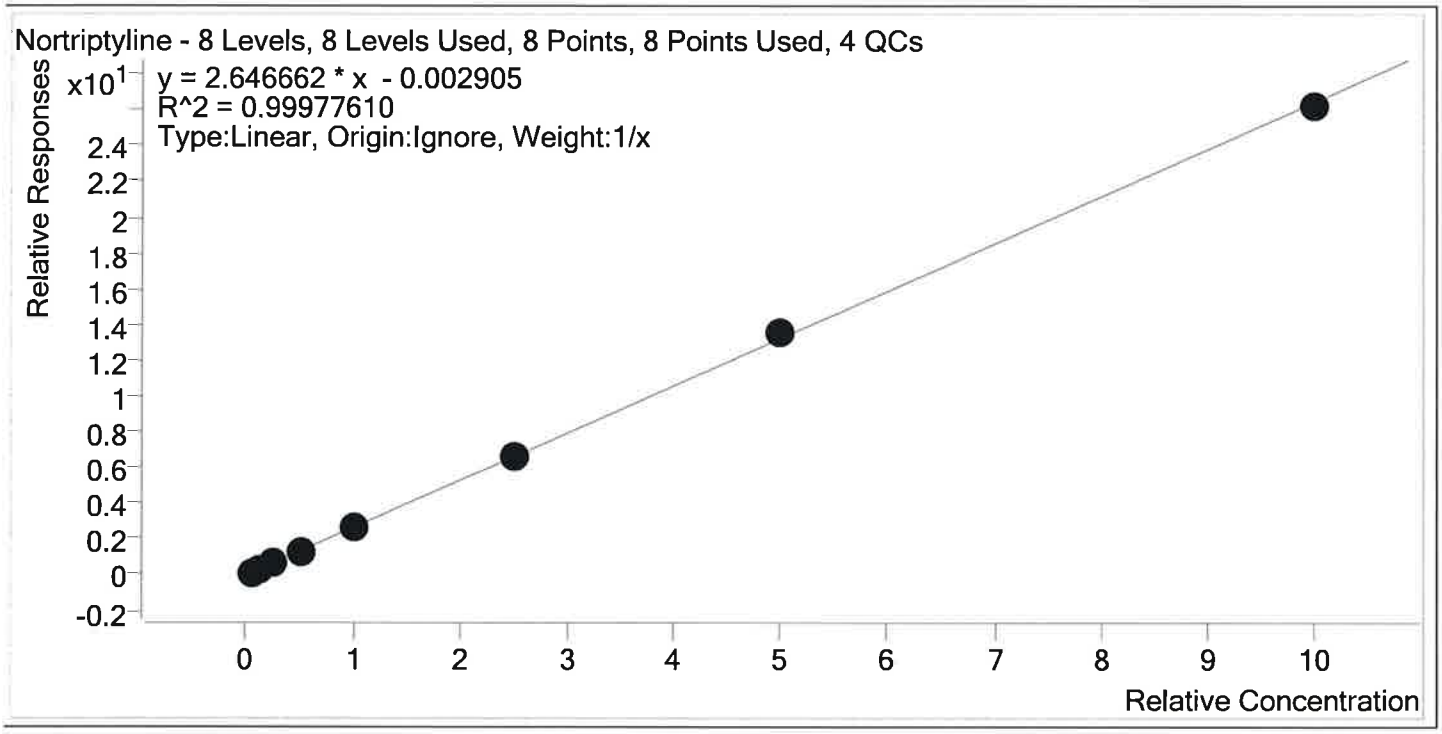


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p2 Cal 1-5ng	1	✓	5.0	5.1	102.7
p2 Cal 2- 10ng	2	✓	10.0	10.0	99.9
p2 Cal 3 -25ng	3	✓	25.0	23.9	95.7
p2 Cal 4-50ng	4	✓	50.0	50.0	99.9
p2 Cal 5-100ng	5	✓	100.0	102.0	102.0
p2 Cal 6-250ng	6	✓	250.0	251.8	100.7
p2 Cal 7-500ng	7	✓	500.0	493.6	98.7
p2 Cal 8-1000ng	8	✓	1000.0	1003.7	100.4

TS

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P2 wklst 3503 TS.batch.bin
Last Cal. Update	6/25/2019 9:50 AM
Analyst Name	ISP\datastor
Analyte	Nortriptyline
Internal Standard	Nortriptyline-d3

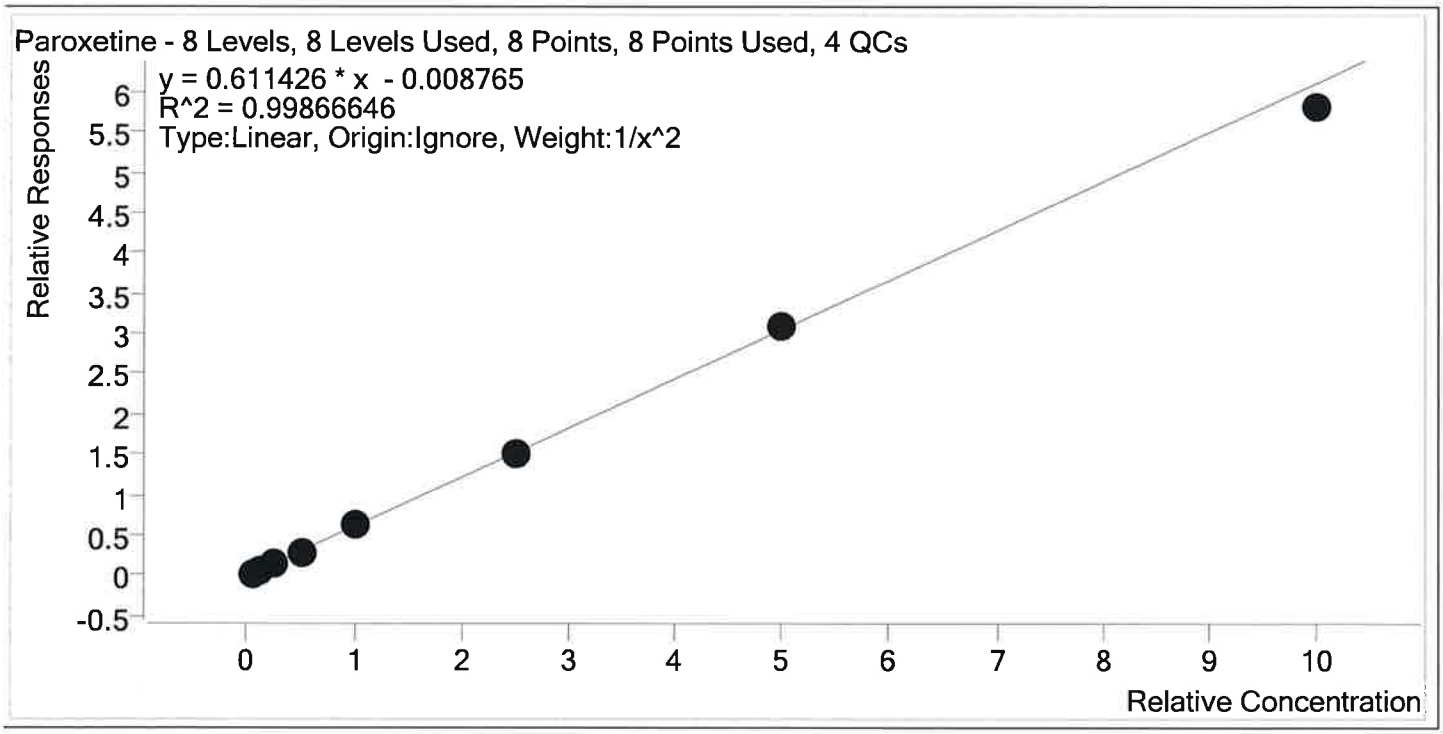


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p2 Cal 1-5ng	1	✓	5.0	5.0	100.8
p2 Cal 2- 10ng	2	✓	10.0	10.2	102.0
p2 Cal 3 -25ng	3	✓	25.0	23.6	94.6
p2 Cal 4-50ng	4	✓	50.0	50.7	101.5
p2 Cal 5-100ng	5	✓	100.0	100.5	100.5
p2 Cal 6-250ng	6	✓	250.0	248.7	99.5
p2 Cal 7-500ng	7	✓	500.0	510.3	102.1
p2 Cal 8-1000ng	8	✓	1000.0	990.8	99.1

TS

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P2 wklst 3503 TS.batch.bin
Last Cal. Update	6/25/2019 9:50 AM
Analyst Name	ISP\datastor
Analyte	Paroxetine
Internal Standard	Doxepin-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p2 Cal 1-5ng	1	✓	5.0	5.0	99.5
p2 Cal 2- 10ng	2	✓	10.0	10.1	101.4
p2 Cal 3 -25ng	3	✓	25.0	24.6	98.4
p2 Cal 4-50ng	4	✓	50.0	49.1	98.3
p2 Cal 5-100ng	5	✓	100.0	105.9	105.9
p2 Cal 6-250ng	6	✓	250.0	248.7	99.5
p2 Cal 7-500ng	7	✓	500.0	509.8	102.0
p2 Cal 8-1000ng	8	✓	1000.0	951.2	95.1

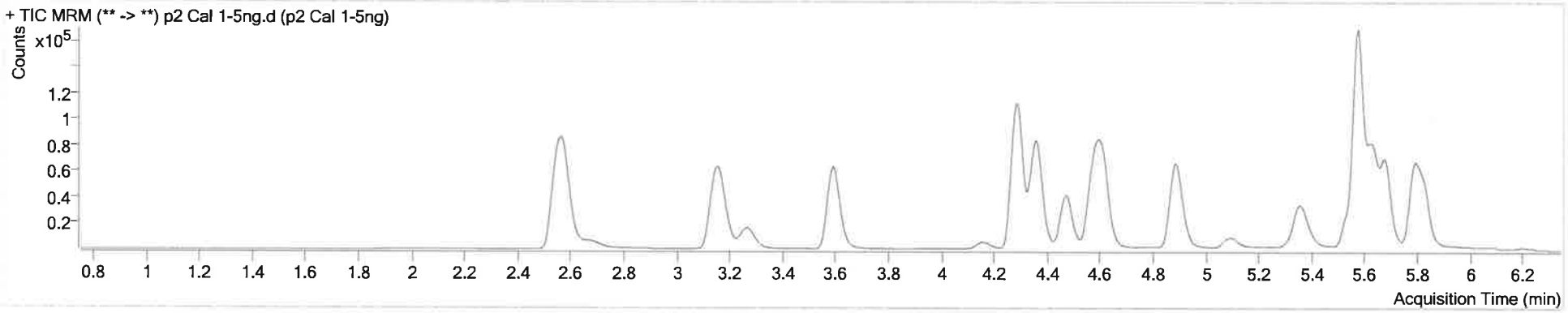
TS

AM #28 Multi-Drug Quant. Results

Batch results	D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P2 wklst 3503 TS.batch.bin
Calibration Last Update	6/25/2019 2:43:04 PM

Instrument	Falco	**Data File**	p2 Cal 1-5ng.d
Type	Cal	**Sample**	p2 Cal 1-5ng
Acq. Method	MDQ P2 Combined 040919.m	**Operator**	
Sample Position	P1-A1	**Comment**	
Injection Volume	1		
Acq. Date-Time	6/24/2019 11:01:12 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoflunitrazepam	4.614	10653	2272.53	24.5	470.12	108803	4.3582 ng/ml
Chlorpheniramine	5.098	26955	716.28			77709	10.6143 ng/ml
Etizolam	5.802	4644	5474.02	26.2	1226.12	77332	5.0375 ng/ml
Flurazepam	5.324	11967	10704.61	12.9	1543.95	13613	5.1538 ng/ml
Levamisole	2.680	10907	8273.41	80.6	458.13	345976	6.0157 ng/ml
Midazolam	5.803	3326	∞	88.6	4188.91	88718	5.1344 ng/ml
Nortriptyline	5.698	3356	98.59	36.3	98.11	25714	5.0405 ng/ml
Paroxetine	5.557	1015	894.97	49.0	83.18	46886	4.9754 ng/ml

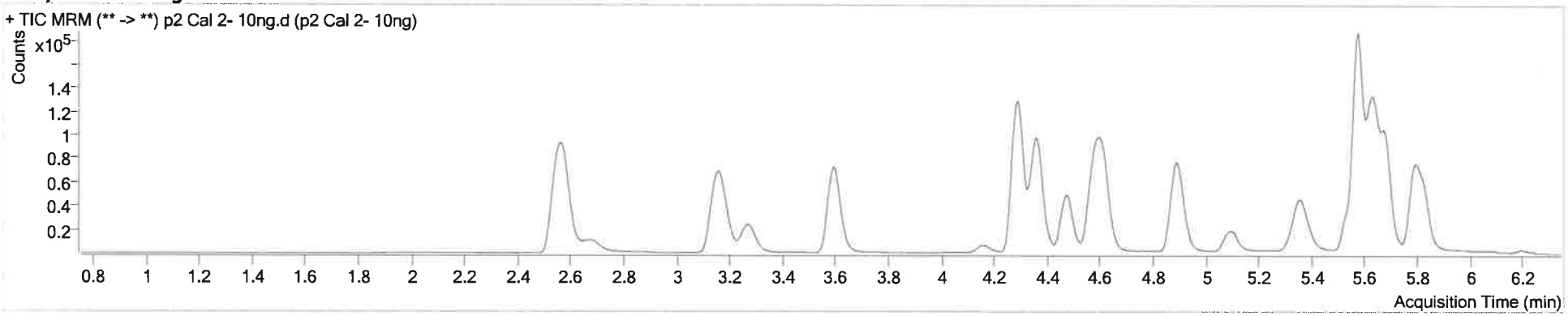
TS

AM #28 Multi-Drug Quant. Results

Batch results	D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P2 wklst 3503 TS.batch.bin
Calibration Last Update	6/25/2019 2:43:04 PM

Instrument	Falco	**Data File**	p2 Cal 2- 10ng.d
Type	Cal	**Sample**	p2 Cal 2- 10ng
Acq. Method	MDQ P2 Combined 040919.m	**Operator**	
Sample Position	P1-B1	**Comment**	
Injection Volume	1		
Acq. Date-Time	6/24/2019 11:11:49 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoflunitrazepam	4.614	21784	1168.43	24.7	1498.84	111965	9.7575 ng/ml
Chlorpheniramine	5.098	61384	2185.43			111287	14.0160 ng/ml
Etizolam	5.802	8846	9512.40	27.7	∞	75506	9.7486 ng/ml
Flurazepam	5.324	25364	55185.41	13.4	∞	13104	9.9818 ng/ml
Levamisole	2.680	22549	14310.36	81.7	1698.81	336339	10.5832 ng/ml
Midazolam	5.810	6647	∞	89.7	3054.20	92678	9.9916 ng/ml
Nortriptyline	5.698	10616	2443.68	35.5	878.10	39765	10.1968 ng/ml
Paroxetine	5.564	3238	∞	53.0	∞	60823	10.1415 ng/ml

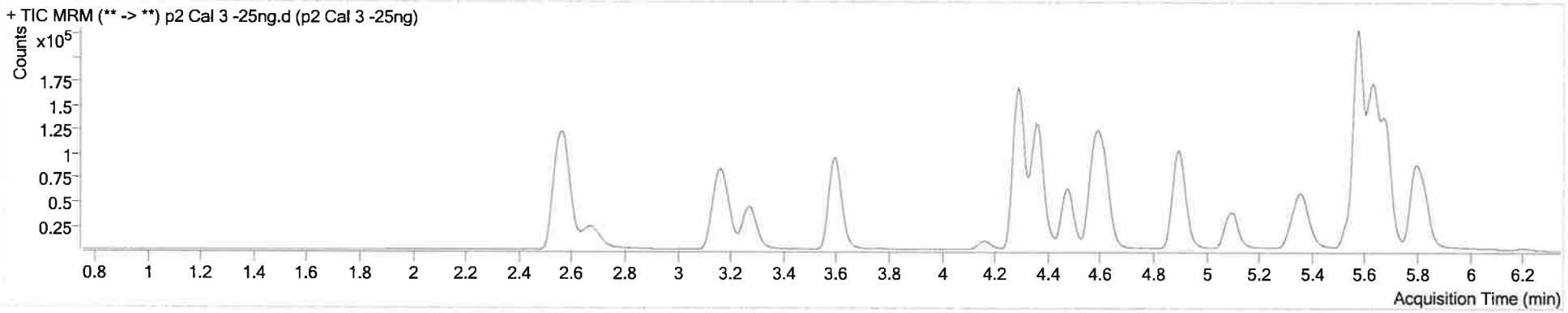
75

AM #28 Multi-Drug Quant. Results

Batch results	D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P2 wklst 3503 TS.batch.bin
Calibration Last Update	6/25/2019 2:43:04 PM

Instrument	Falco	**Data File**	p2 Cal 3 -25ng.d
Type	Cal	**Sample**	p2 Cal 3 -25ng
Acq. Method	MDQ P2 Combined 040919.m	**Operator**	
Sample Position	P1-C1	**Comment**	
Injection Volume	1		
Acq. Date-Time	6/24/2019 11:22:15 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoflunitrazepam	4.614	54457	16252.21	23.9	∞	115839	25.1497 ng/ml
Chlorpheniramine	5.098	136318	9987.56	0.4	45.16	95515	28.5661 ng/ml
Etizolam	5.802	20980	1269.72	28.1	∞	76442	22.7274 ng/ml
Flurazepam	5.324	56611	∞	13.3	9623.32	13096	20.8897 ng/ml
Levamisole	2.674	56543	4925.53	81.7	1874.63	350868	22.6858 ng/ml
Midazolam	5.810	15078	∞	89.1	2069.18	88728	23.9280 ng/ml
Nortriptyline	5.698	21359	610.64	35.4	1361.40	34297	23.6400 ng/ml
Paroxetine	5.564	7500	738.90	46.4	1810.01	52949	24.6007 ng/ml

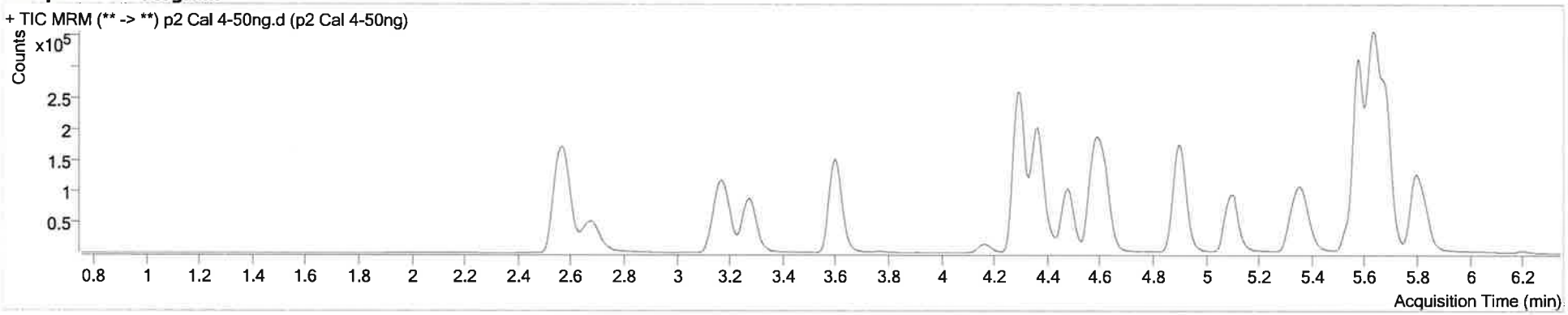
TS

AM #28 Multi-Drug Quant. Results

Batch results	D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P2 wklst 3503 TS.batch.bin
Calibration Last Update	6/25/2019 2:43:04 PM

Instrument	Falco	**Data File**	p2 Cal 4-50ng.d
Type	Cal	**Sample**	p2 Cal 4-50ng
Acq. Method	MDQ P2 Combined 040919.m	**Operator**	
Sample Position	P1-D1	**Comment**	
Injection Volume	1		
Acq. Date-Time	6/24/2019 11:32:41 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoflunitrazepam	4.614	110960	3250.62	24.3	6100.33	115962	52.3397 ng/ml
Chlorpheniramine	5.105	331434	24829.96	0.4	56.87	131659	46.6813 ng/ml
Etizolam	5.802	43625	∞	26.3	11056.28	73223	49.2372 ng/ml
Flurazepam	5.324	137990	4545.41	12.8	∞	12807	50.3720 ng/ml
Levamisole	2.680	120596	24535.73	82.8	1895.81	359774	45.0685 ng/ml
Midazolam	5.803	34184	2311.24	90.3	∞	96722	49.9642 ng/ml
Nortriptyline	5.698	64869	3606.75	36.7	4673.44	48409	50.7400 ng/ml
Paroxetine	5.564	20586	20766.14	53.1	∞	70593	49.1275 ng/ml

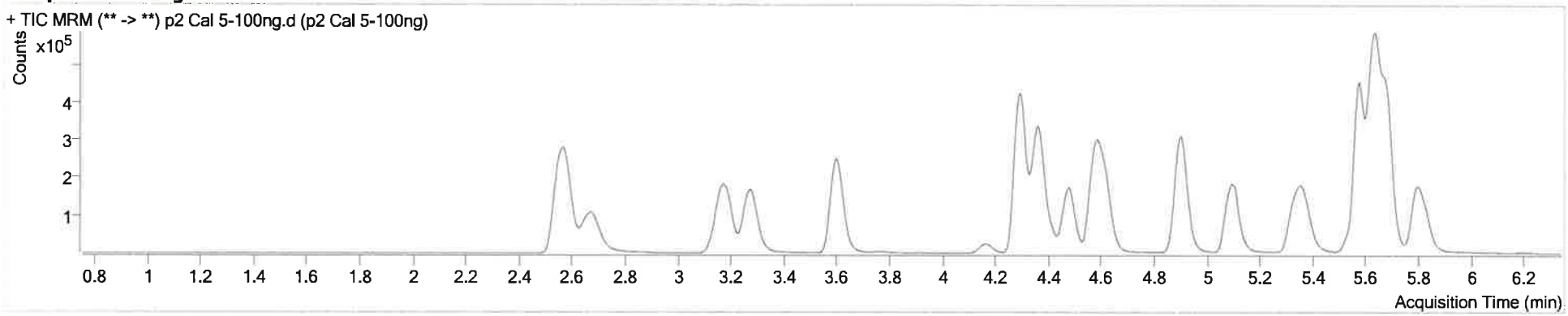
75

AM #28 Multi-Drug Quant. Results

Batch results	D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P2 wklst 3503 TS.batch.bin
Calibration Last Update	6/25/2019 2:43:04 PM

Instrument	Falco	**Data File**	p2 Cal 5-100ng.d
Type	Cal	**Sample**	p2 Cal 5-100ng
Acq. Method	MDQ P2 Combined 040919.m	**Operator**	
Sample Position	P1-E1	**Comment**	
Injection Volume	1		
Acq. Date-Time	6/24/2019 11:43:08 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoflunitrazepam	4.614	229446	20568.90	24.8	25065.80	118666	106.8980 ng/ml
Chlorpheniramine	5.098	655986	7251.14	0.4	∞	123311	93.2491 ng/ml
Etizolam	5.802	88130	18117.66	26.8	∞	69487	104.7213 ng/ml
Flurazepam	5.324	271831	56999.50	13.0	∞	12677	99.1165 ng/ml
Levamisole	2.674	262259	62235.13	81.5	26240.39	363851	94.6547 ng/ml
Midazolam	5.810	64336	∞	89.9	∞	89368	101.9656 ng/ml
Nortriptyline	5.698	125031	6058.87	36.3	6420.51	47036	100.5458 ng/ml
Paroxetine	5.564	42836	4934.86	51.3	∞	67075	105.8838 ng/ml

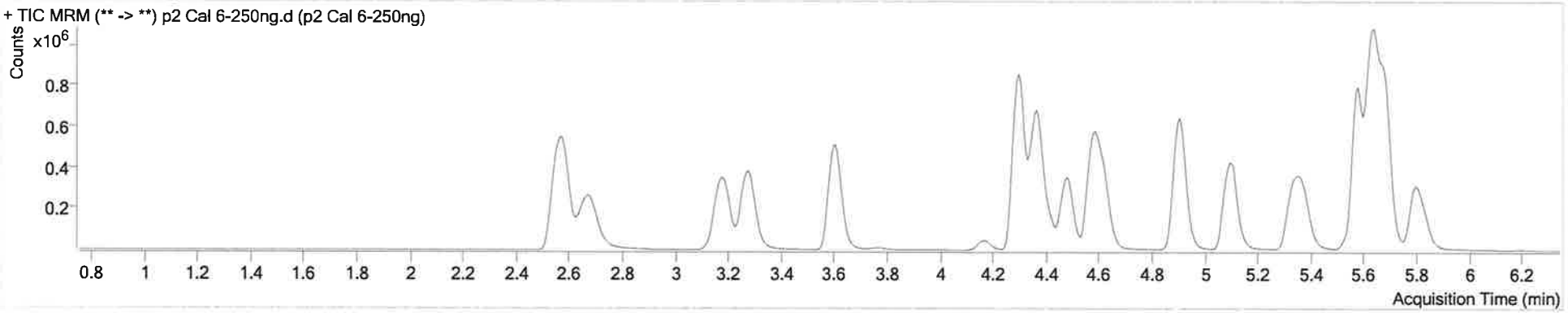
TS

AM #28 Multi-Drug Quant. Results

Batch results	D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P2 wklst 3503 TS.batch.bin
Calibration Last Update	6/25/2019 2:43:04 PM

Instrument	Falco	**Data File**	p2 Cal 6-250ng.d
Type	Cal	**Sample**	p2 Cal 6-250ng
Acq. Method	MDQ P2 Combined 040919.m	**Operator**	
Sample Position	P1-F1	**Comment**	
Injection Volume	1		
Acq. Date-Time	6/24/2019 11:53:34 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoflunitrazepam	4.614	539829	14400.24	24.8	25226.35	115460	260.0612 ng/ml
Chlorpheniramine	5.098	1530924	22890.16	0.4	312.53	108592	239.1156 ng/ml
Etizolam	5.802	186847	12551.98	27.4	19546.96	58882	261.8877 ng/ml
Flurazepam	5.324	622758	178530.24	13.4	∞	10052	284.2181 ng/ml
Levamisole	2.674	655307	111850.07	81.7	49907.62	350913	242.1140 ng/ml
Midazolam	5.810	149109	2697.44	89.3	2622.33	83980	251.7547 ng/ml
Nortriptyline	5.698	268911	∞	36.1	35282.42	40866	248.7345 ng/ml
Paroxetine	5.564	95433	∞	52.8	98733.27	63136	248.6503 ng/ml

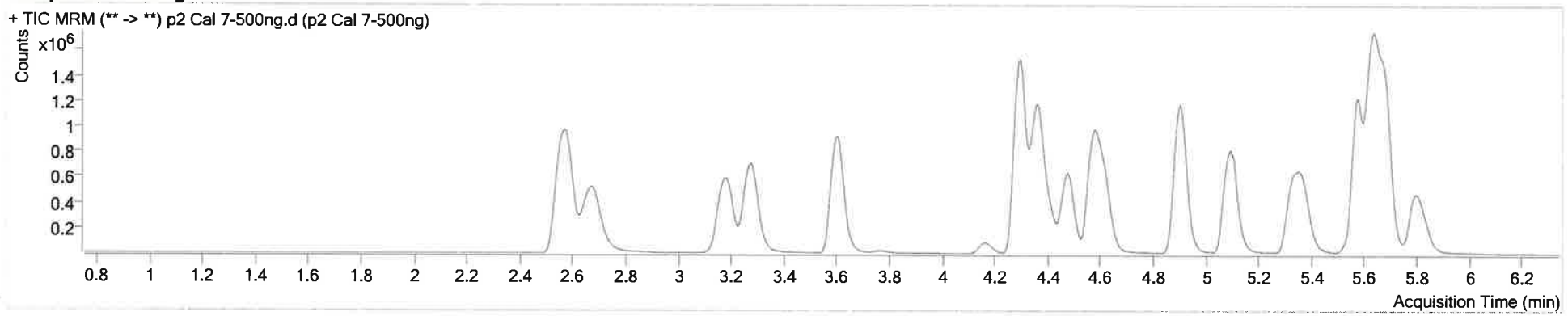
75

AM #28 Multi-Drug Quant. Results

Batch results	D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P2 wklst 3503 TS.batch.bin
Calibration Last Update	6/25/2019 2:43:04 PM

Instrument	Falco	**Data File**	p2 Cal 7-500ng.d
Type	Cal	**Sample**	p2 Cal 7-500ng
Acq. Method	MDQ P2 Combined 040919.m	**Operator**	
Sample Position	P1-G1	**Comment**	
Injection Volume	1		
Acq. Date-Time	6/24/2019 12:04:00 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoflunitrazepam	4.614	1034986	6010.17	24.7	∞	113303	509.1572 ng/ml
Chlorpheniramine	5.098	2975954	∞	0.4	∞	96483	517.3879 ng/ml
Etizolam	5.802	316372	6238.05	27.1	7454.23	48131	542.3888 ng/ml
Flurazepam	5.324	1208625	∞	13.5	∞	8377	660.4436 ng/ml
Levamisole	2.674	1308342	207494.88	81.8	145968.92	340667	495.8550 ng/ml
Midazolam	5.810	266735	10645.57	89.3	11199.05	76649	493.6076 ng/ml
Nortriptyline	5.698	479650	10213.61	36.0	294210.80	35520	510.3192 ng/ml
Paroxetine	5.564	182696	∞	53.1	87366.01	58779	509.7855 ng/ml

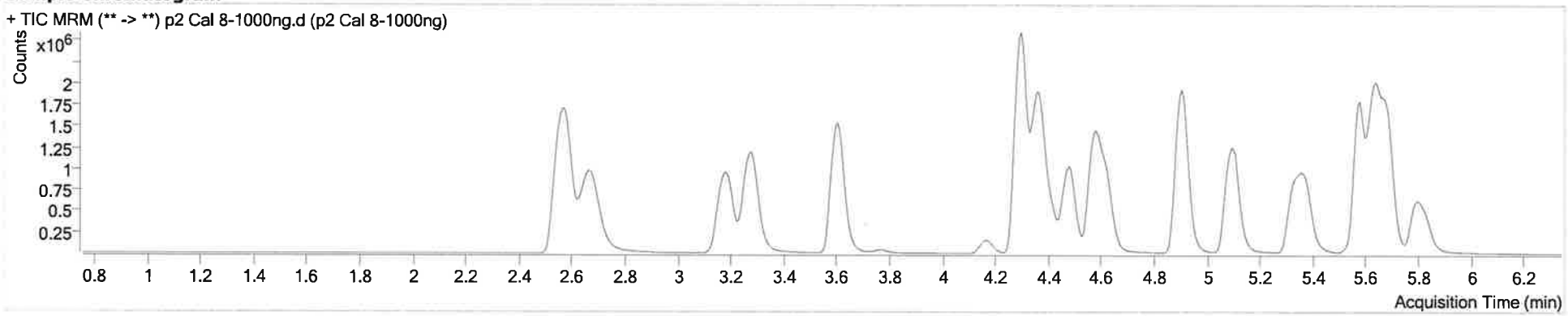
TS

AM #28 Multi-Drug Quant. Results

Batch results	D:\MassHunter\Data\2019\AM 28\062419 MDQ P1 P2 and THCQ TS\QuantResults\MDQ P2 wklst 3503 TS.batch.bin
Calibration Last Update	6/25/2019 2:43:04 PM

Instrument	Falco	**Data File**	p2 Cal 8-1000ng.d
Type	Cal	**Sample**	p2 Cal 8-1000ng
Acq. Method	MDQ P2 Combined 040919.m	**Operator**	
Sample Position	P1-H1	**Comment**	
Injection Volume	1		
Acq. Date-Time	6/24/2019 12:14:26 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoflunitrazepam	4.614	1863024	8939.87	25.1	104675.03	106914	972.2784 ng/ml
Chlorpheniramine	5.098	4643680	∞	0.4	∞	55313	1399.8944 ng/ml
Etizolam	5.802	471375	19575.04	27.4	7555.53	41190	944.2516 ng/ml
Flurazepam	5.324	1900667	∞	13.5	∞	7314	1188.6299 ng/ml
Levamisole	2.667	2550690	∞	81.7	309256.51	321253	1023.0231 ng/ml
Midazolam	5.810	427553	5721.92	88.6	6666.11	60436	1003.6538 ng/ml
Nortriptyline	5.698	527719	∞	36.4	41830.28	20127	990.7832 ng/ml
Paroxetine	5.564	211231	4457.36	53.4	183464.05	36375	951.1823 ng/ml