REVIEWED By Celena Shrum at 4:38 pm, Oct 23, 2019

10/11/2019

Worklist: 3755

LAB CASE	<u>ITEM</u>	ITEM TYPE	DESCRIPTION
P2019-2733	1	BCK	AM 28 Blood Multi-Drug Quant Panel 2 by LC-QQQ
P2019-2805	1	BCK	AM 28 Blood Multi-Drug Quant Panel 2 by LC-QQQ
P2019-2889	1	BCK	AM 28 Blood Multi-Drug Quant Panel 2 by LC-QQQ
P2019-2911	1	BCK	AM 28 Blood Multi-Drug Quant Panel 2 by LC-QQQ
P2019-2933	1	BCK	AM 28 Blood Multi-Drug Quant Panel 2 by LC-QQQ

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

Extraction Date: 10/15/19 Plate lot#: Item #:IDP-112 Lot:190730 Analyst: Tamara Salazar Plate Expiration: 01/30/20

Mobile phase A: 5mM Amm Form + 0.01% FA 0.5M Ammonium Hydroxide Blank Blood Lot: 445283-2 LCMS-QQQ ID: 069901 Mobile phase B:0.01% Formic Acid in MeOHEthyl Acetate20% Methanol in WaterColumn:Agilent 120 EC-C18 (2.1x 100-2.7um)

Pre-Analytic:

- \boxtimes 1. Check levels of mobile phases and needle wash refill as needed. Ensure waste is not full.
- \boxtimes 2. Ensure correct column is installed and begin mobile phase flow allow to equilibrate ~ 30 minutes.
- \boxtimes 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.
- \boxtimes 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
- \boxtimes 8. Wait 5 minutes.
- 9. Add 900uL ethyl acetate.
- \boxtimes 10. Wait 5 minutes.
- ☑ 11. Apply positive pressure for approx. 15 seconds. (10-15 PSI- Selector to the left).
- ⊠ 12. Add 900uL ethyl acetate.
- \boxtimes 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.

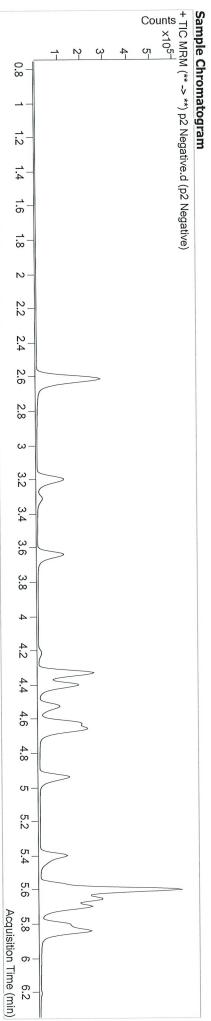
Post-Analytic

- ☑ 1. Create batch and process data. Worklist path: D:\MassHunter\Data\2019\AM 28\101519 MDQ P1 and P2_THCQ TS Batch Name: MDQ P2 wklst 375 TS_evaluated compounds
- ☑ 2. Make necessary changes to integration limits
- \boxtimes 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: Compounds evaluated: Amitriptyline, Maprotiline, Methocarbamol, Midazolam, Nortriptyline, Phenytoin Curves limited: Maprotiline 5-500, Phenytoin 5-500



Batch results Calibration Last Update	D:\MassHunter\Data\2019\AM 28 10/16/2019 3:26:35 PM	\101519 MDQ P1 and P2_THCC	D:\MassHunter\Data\2019\AM 28\101519 MDQ P1 and P2_THCQ TS\QuantResults\MDQ P2 wklst 3755 TS_evaluated compounds.batch.bin 10/16/2019 3:26:35 PM
Instrument Type Acq. Method Sample Position Injection Volume Acq. Date-Time Sample Info.	Falco Sample MDQ P2 Combined 092319.m P1-E2 2 10/15/2019 4:58:00 PM	Data File Sample Operator Comment	p2 Negative.d p2 Negative
Acq. Date-Time Sample Info. Sample Chromatogram	10/15/2019 4:58:00 PM		
+ TIC MRM (** -> **) p2 Negative.d (p2 Negative)	e.d (p2 Negative)		
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4-			



Туре Counts ×105 Sample Info. Sample Position **Calibration Last Update Batch results** + TIC MRM (** -> **) p2 QC 10.d (p2 QC 10) Sample Chromatogram Injection Volume Acq. Method Instrument Acq. Date-Time ω P1-A2 Falco QC MDQ P2 Combined 092319.m 10/15/2019 3:12:52 PM D:\MassHunter\Data\2019\AM 28\101519 MDQ P1 and P2_THCQ TS\QuantResults\MDQ P2 wklst 3755 TS_evaluated compounds.batch.bin 10/16/2019 3:26:35 PM N 2.2 2.4 2.6 2.8 Operator Sample Comment Data File ω 3.2 3.4 3.6 3.8 p2 QC 10.d p2 QC 10 4 4.2 4.4 4.6 4.8 СЛ 5.2 5.4 5.6 5.8 თ 6.2

Phenytoin Nortriptyline Midazolam Methocarbamol Maprotiline Amitriptyline Name 5.717 5.836 4.420 5.696 5.696 5.473 RT 96115 50886 10803 17135 **Resp.** 96115 1508 5009.29 112.99 983.09 983.09 N/S 8 8 Ratio 46.5 28.7 90.0 29.3 70.2 19425.06 408.12 683.76 397.20 N/S 8 8 ISTD Resp. 1001642 166167 188476 179764 179764 7767 11.0616 10.0823 10.6109 9.6486 9.4673 9.3131 Final Conc. ng/ml ng/ml ng/ml ng/ml Acquisition Time (min)

0.8

1.2

1.4

1.6

1.8

75

Batch results Calibration Last Update	D:\MassHunter\Data\2019\AM 2 10/16/2019 3:26:35 PM	8\101519 MDQ P1 and P2_THC	D:\MassHunter\Data\2019\AM 28\101519 MDQ P1 and P2_THCQ TS\QuantResults\MDQ P2 wklst 3755 TS_evaluated compounds.batch.bin 10/16/2019 3:26:35 PM
Instrument Type Acq. Method Sample Position Injection Volume Acq. Date-Time Sample Info.	Falco QC MDQ P2 Combined 092319.m P1-B2 2 10/15/2019 3:33:53 PM	Data File Sample Operator Comment	p2 QC 100.d p2 QC 100
Sample Chromatogram			

Name Amitriptyline Maprotiline	+ TIC MRN X 106 1.2 0.8 0.6 0.2
tiline	+ TIC MRM (** -> **) p2 QC 100.d (p2 QC 100) 1.2- 1.2- 0.8- 0.6- 0.4- 0.2- 0.2- 0.8 1 1.2 1.4 1.6 1.
	1.2
თ თ	100.d (p 1.4
5.696 5.696	1.6 QC 1
	1.8 I I I I I I I I I I I I I I I I I I I
	N
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Resp. 744618 744618	2.2 2.4 2.6
	2.6
S/N 2588.85 2588.85	2.8
.85 .85	ω-
	3.2
Ratio 47.7 25.0	3.4
tio 7.7 5.0	.ω Θ
10 77	- 4
S/N 1033.60 7762.04	4- 2-
	4
IST	4_ 6
ISTD Resp. 145178 145178	
78 P	сл – <u>с</u>
1 05.4	5. N
Final (1299 1 1098 1	
Final Conc. 105.4299 ng/ml 103.1098 ng/ml	
	Acqui
	sition T
	5.8 6 6.2 Acquisition Time (min)
	in)

Maprotiine Methocarbamol Midazolam Phenytoin Nortriptyline 4.420 5.836 5.717 5.479 92903 141525 389466 13330 1128.86 3096.81 4416.04 ∞ 90.6 86.4 29.9 77.3 ∞ 2563.15 2752.63 234.66 936693 153245 129126 7244 112.0939 ng/ml 89.5201 ng/ml 105.7002 ng/ml 91.6174 ng/ml

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Calibration Last Update Batch results Instrument Counts ×106 + TIC MRM (** -> **) p2 QC 250.d (p2 QC 250) Sample Chromatogram Sample Info. Acq. Date-Time Injection Volume Sample Position Acq. Method Type 1.25-1-0.75-0.25-1.75-1.5-0.8 -1.2 1.4 P1-C2 Falco QC MDQ P2 Combined 092319.m 10/15/2019 3:54:55 PM 1.6 D:\MassHunter\Data\2019\AM 28\101519 MDQ P1 and P2_THCQ TS\QuantResults\MDQ P2 wklst 3755 TS_evaluated compounds.batch.bin 10/16/2019 3:26:35 PM 1.8 Ν 2.2 2.4 2.6 2.8 Comment Operator Sample Data File ω 3.2 3.4 3.6 з.8 p2 QC 250.d p2 QC 250 4 4.2 4.4 4.6 4.8 СЛ 5.2 5.4 5.6 Acquisition Time (min) 5.8 თ 6.2

Phenytoin Amitriptyline Midazolam Methocarbamol Name Nortriptyline Maprotiline 4.420 5.717 5.836 5.696 5.696 5.479 RT 1466450 1466450 756002 287350 192961 Resp. 34088 143200.84 18354.56 19094.71 19094.71 8846.06 3629.69 N/S Ratio 48.6 22.2 89.4 88.9 30.2 78.1 43307.49 31154.52 3456.94 2011.92 1780.19 2913.00 N/S ISTD Resp. 104962 119725 119189 792809 119189 7036 255.2859 277.6513 249.0596 241.8630 251.9041 230.3975 Final Conc. ng/ml ng/ml ng/ml ng/ml

Generated at 3:27 PM on 10/16/2019

Page 1 of



TS

Туре Sample Info. Acq. Method Sample Position Instrument **Calibration Last Update** Acq. Date-Time Injection Volume Falco QC P1-D2 10/15/2019 4:15:59 PM

Counts

N

Sample Chromatogram

MDQ P2 Combined 092319.m

p2 QC 1000.d p2 QC 1000

Operator Sample Comment

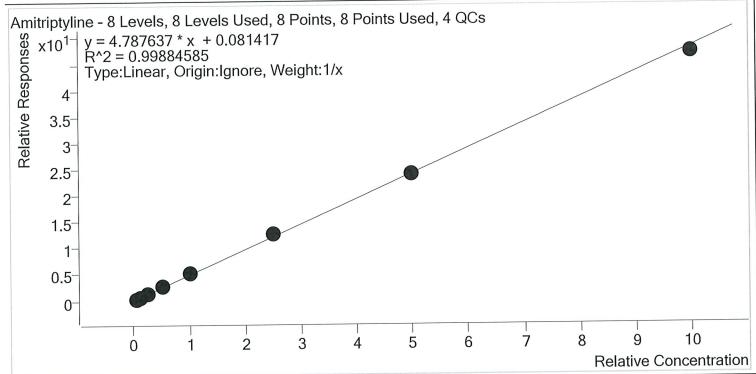
Data File

+ TIC MRM (** -> **) p2 QC 1000.d (p2 QC 1000) 1.8 Ν 2.2 2.4 2.6 2.8 ω 3.2 3.4 3.6 3.8 4 4.2 4.4 4.6 4.8 СЛ 5.2 5.4 5.6 5.8 σ 6.2

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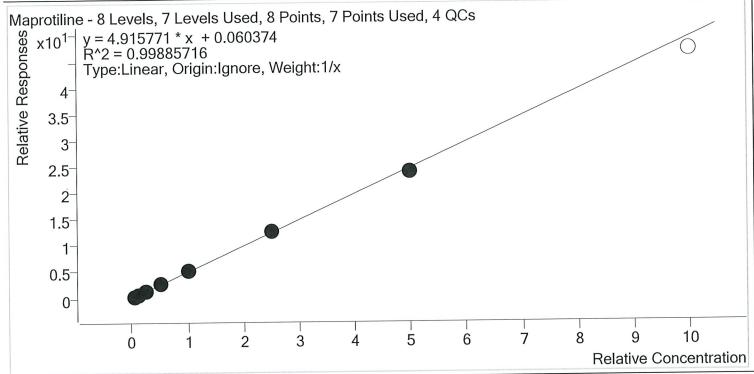
Batch results	D:\MassHunter\Data\2019\AM 28\101519 MDC 3755 TS_evaluated compounds.batch.bin	P1 and P2_THCQ TS\Qu	iantResults\MDQ P2 wklst
Last Cal. Update	10/16/2019 3:26 PM		
Analyst Name	ISP\datastor		
Analyte	Amitriptyline	Internal Standard	Amitriptyline-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p2 Cal 1-5ng	1	√	5.0	4.1	82.2
p2 Cal 2- 10ng	2	1	10.0	10.0	99.6
p2 Cal 3 -25ng	3	1	25.0	26.0	104.0
p2 Cal 4-50ng	4	1	50.0	51.3	102.6
p2 Cal 5-100ng	5	√	100.0	109.5	109.5
p2 Cal 6-250ng	6	1	250.0	260.2	104.1
p2 Cal 7-500ng	7	1	500.0	501.0	100.2
p2 Cal 8-1000ng	8	√	1000.0	977.9	97.8



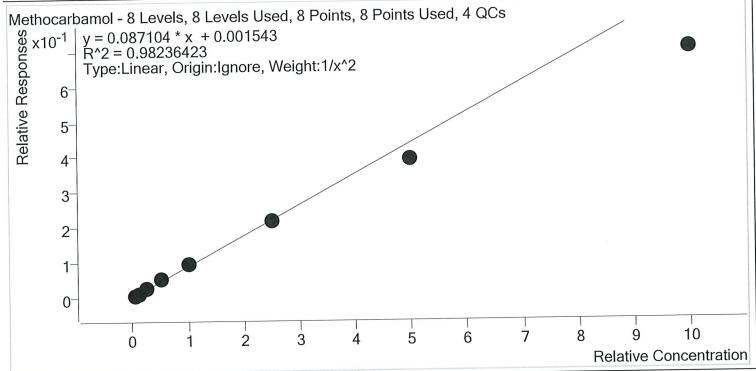
Analyte	Maprotiline Internal Stand	dard	Amitriptyline-D3
Analyst Name	ISP\datastor		
Last Cal. Update	10/16/2019 3:26 PM		
Batch results	D:\MassHunter\Data\2019\AM 28\101519 MDQ P1 and P2_THC0 3755 TS_evaluated compounds.batch.bin	Q TS\Qu	antResults\MDQ P2 wklst



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p2 Cal 1-5ng	1	√	5.0	4.4	88.7
p2 Cal 2- 10ng	2	1	10.0	10.1	101.3
p2 Cal 3 -25ng	3	√	25.0	25.7	103.0
p2 Cal 4-50ng	4	1	50.0	50.4	100.8
p2 Cal 5-100ng	5	1	100.0	107.1	107.1
p2 Cal 6-250ng	6	√	250.0	253.9	101.5
p2 Cal 7-500ng	7	✓	500.0	488.3	97.7
p2 Cal 7-5001g	8	×	1000.0	952.9	95.3



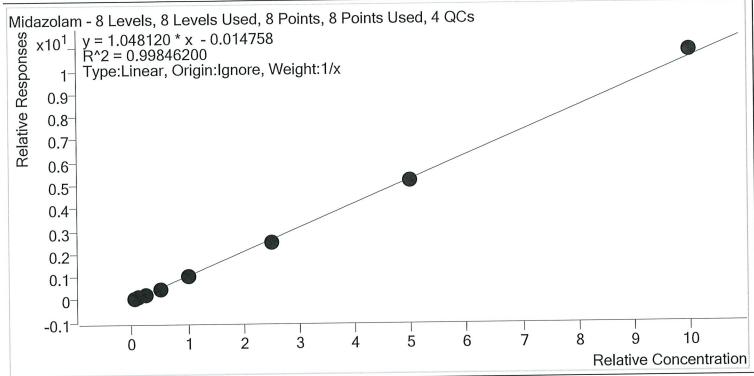
Batch results	D:\MassHunter\Data\2019\AM 28\101519 MDQ P1 and P2_THC 3755 TS_evaluated compounds.batch.bin	CQ TS\Qı	antResults\MDQ P2 wkist
Last Cal. Update	10/16/2019 3:26 PM		
Analyst Name	ISP\datastor		
Analyte	Methocarbamol Internal Star	ndard	Pseudoephedrine-D3



Level	Enabled	Expected Concentration	Final Concentration	Accuracy
1	√	5.0	4.7	93.6
2	√	10.0	10.5	104.9
3	√	25.0	28.4	113.5
4	√	50.0	55.6	111.2
5	√	100.0	108.6	108.6
6	√		246.9	98.8
7	1		444.9	89.0
8	√		805.7	80.6
	Level 1 2 3 4 5 6 7 8	LevelEnabled1 \checkmark 2 \checkmark 3 \checkmark 4 \checkmark 5 \checkmark 6 \checkmark 7 \checkmark 8 \checkmark	Concentration 1 ✓ 5.0 2 ✓ 10.0 3 ✓ 25.0	LevelConcentration1 \checkmark 5.0 2 \checkmark 10.0 3 \checkmark 25.0 4 \checkmark 50.0 5 \checkmark 100.0 108.66 \checkmark 250.0 7 \checkmark 500.0 246.9



Analyte	Midazolam Internal Sta	andard	Midazolam-D4
Analyst Name	ISP\datastor		
Last Cal. Update	10/16/2019 3:26 PM		
Batch results	D:\MassHunter\Data\2019\AM 28\101519 MDQ P1 and P2_TH 3755 TS_evaluated compounds.batch.bin	ICQ TS∖Qu	antResults\MDQ P2 wklst

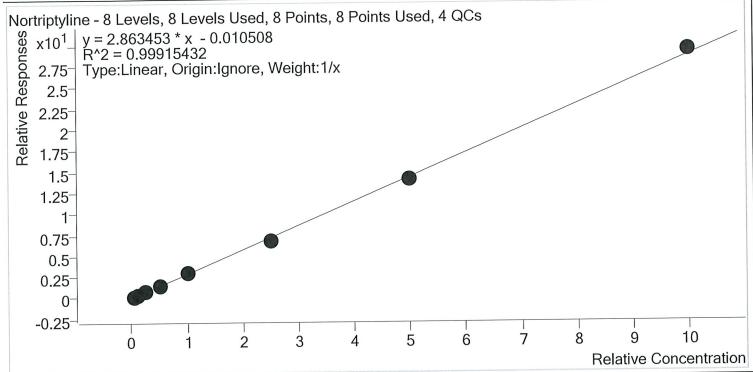


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p2 Cal 1-5ng	1	√	5.0	6.1	121.6
p2 Cal 2- 10ng	2	√	10.0	10.2	102.4
p2 Cal 3 -25ng	3	√	25.0	23.4	93.6
p2 Cal 4-50ng	4	√	50.0	45.4	90.7
p2 Cal 5-100ng	5	✓	100.0	95.7	95.7
p2 Cal 6-250ng	6	√	250.0	234.5	93.8
p2 Cal 0-250ng	7	√	500.0	496.7	99.3
p2 Cal 7-500ng	8	✓	1000.0	1028.0	102.8



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Batch results	D:\MassHunter\Data\2019\AM 28\101519 MDQ P1 and P2_THCQ TS\ 3755 TS_evaluated compounds.batch.bin	QuantResults\MDQ P2 wklst
Last Cal. Update	10/16/2019 3:26 PM	
Analyst Name	ISP\datastor	
Analyte	Nortriptyline Internal Standard	Nortriptyline-d3

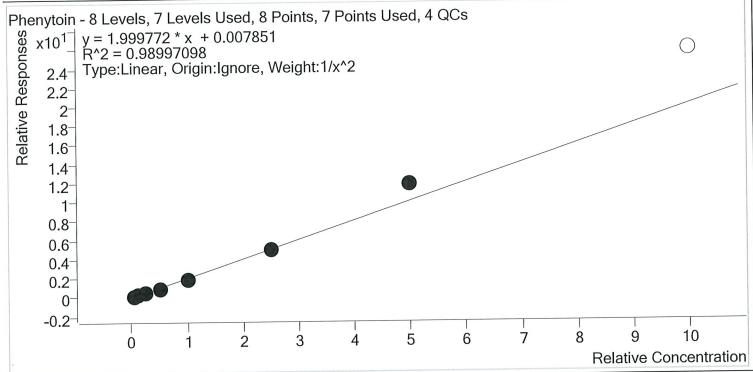


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p2 Cal 1-5ng	1	1	5.0	5.4	107.2
p2 Cal 2- 10ng	2	1	10.0	10.3	103.1
p2 Cal 3 -25ng	3	√	25.0	24.4	97.8
p2 Cal 4-50ng	4	1	50.0	47.3	94.7
p2 Cal 5-100ng	5	√	100.0	101.8	101.8
p2 Cal 6-250ng	6	√	250.0	237.7	95.1
p2 Cal 7-500ng	7	✓	500.0	490.8	98.2
p2 Cal 8-1000ng	8	√	1000.0	1022.3	102.2



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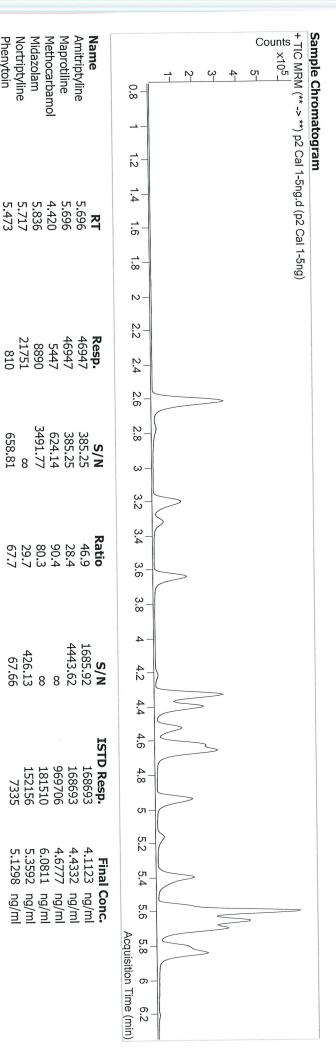
Batch results	D:\MassHunter\Data\2019\AM 28\101519 MDQ P1 an 3755 TS_evaluated compounds.batch.bin	nd P2_THCQ TS\Qua	ntResults\MDQ P2 wklst
Last Cal. Update	10/16/2019 3:26 PM		
Analyst Name	ISP\datastor		
Analyte	Phenytoin Int	ternal Standard	Phenytoin-D10



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p2 Cal 1-5ng	1	1	5.0	5.1	102.6
p2 Cal 2- 10ng	2	✓	10.0	9.9	98.6
p2 Cal 3 -25ng	3	1	25.0	23.6	94.3
p2 Cal 4-50ng	4	1	50.0	46.9	93.8
p2 Cal 4-501g	5	√	100.0	94.8	94.8
p2 Cal 6-250ng	6	√	250.0	244.8	97.9
p2 Cal 6-2501g	7	1	500.0	589.9	118.0
p2 Cal 7-5001g	8	×	1000.0	1291.3	129.1

75

Batch results Calibration Last Update	D:\MassHunter\Data\2019\AM 28\ 10/16/2019 3:26:35 PM	101519 MDQ P1 and P2_THCC	D:\MassHunter\Data\2019\AM 28\101519 MDQ P1 and P2_THCQ TS\QuantResults\MDQ P2 wklst 3755 TS_evaluated compounds.batch.bin 10/16/2019 3:26:35 PM
Instrument Type	Falco Cal	Data File Sample	p2 Cal 1-5ng.d p2 Cal 1-5ng
Acq. Method Sample Position	MDQ P2 Combined 092319.m P1-A1	Operator Comment	
Injection Volume	2		
Acq. Date-Time	10/15/2019 1:17:03 PM		
Sample Info.			



p2 Cal 1-5ng

Phenytoin

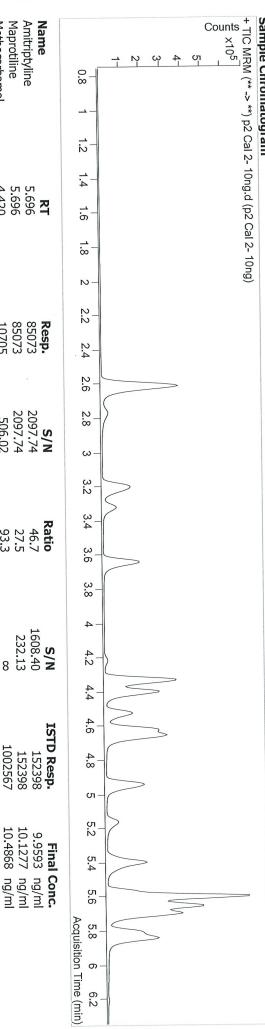
5.473

658.81

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Batch results D:\MassHunter\Data\2019\AM 28\101519 MDQ P1 and P2_THCQ TS\QuantKesults\MDQ P2 WKst 3733 TS_evaluated componing-backhesing Calibration Last Update 10/16/2019 3:26:35 PM	QuantResults(MDQ P2 WKISt 3733 וכבפימועמונים כטוווויטטוועס-גימיטיויטייי
Instrument Type Acq. Method Sample Position Acq. Date-Time Sample Info.Falco Cal MDQ P2 Combined 092319.mData File Sample Operator Commentp2 Cal 2- 10ng.d p2 Cal 2- 10ngInjection Volume Acq. Date-Time Sample Info.10/15/2019 1:27:43 PMOperator Comment2	p2 Cal 2- 10ng.d p2 Cal 2- 10ng
Sample Chromatogram + TIC MRM (** -> **) p2 Cal 2- 10ng.d (p2 Cal 2- 10ng)	



Phenytoin Methocarbamol Nortriptyline Midazolam 4.420 5.836 5.473 5.717 17178 10705 39811 1528 4865.74 2169.03 506.02 8 46.7 27.5 93.3 86.0 29.9 88 8 8 1002567 185592 139787 7455 10.4868 ng/ml 10.2387 ng/ml 10.3129 ng/ml 9.8562 ng/ml

p2 Cal 2- 10ng

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		Conc.	Final Conc.		5 D -	ISTD Resp.	ISI	-	N/S			Patio		-	N/N		3	0000			1					
5.8 6 6.2 Acquisition Time (min)	5.8 Acquis	5.6	5.4	5. N	сл -	4.8	4.6	4.4	4.2	4-	3.8	4 3.6	.2 3.4	3 - 3.2	2.8	2.6	2.4	2.2	N-	1.8	1.6	1.4	1.2	<u> —</u> —	0.8	
						-			_	_			\leq					-							<u>-</u>	
	>																		(gnd	àl 3 -25	.d (p2 C	3 -25ng	92 Cal 3	-> **) p	Sample Chromatogram + TIC MRM (** -> **) p2 Cal 3 -25ng.d (p2 Cal 3 -25ng) u x105 C 7- 7	Counts ×10 ⁵¹
								5ng	p2 Cal 3 -25ng	p2			rt -	Sample Operator Comment	Co Sa		ä	Cal MDQ P2 Combined 092319.m P1-C1 2 10/15/2019 1:38:14 PM	bined (:38:14	2 MDQ P2 Combined 0923 P1-C1 2 10/15/2019 1:38:14 PM	Cal MDQ P P1-C1 2 10/15/			l tion lume ime	Type Acq. Method Sample Position Injection Volume Acq. Date-Time Sample Info.	Type Acq. N Samp Inject Acq. I
Ē	batch.b	ounds.t	compc	aluated	S_eva	3755 T	wklst :	5ng.d	D:\MassHunter\Data\2019\AM 28\101519 MDQ P1 and P2_THCQ TS\QuantResults\MDQ P2 wklst 3755 TS_evaluated compounds.batch.bin 10/16/2019 3:26:35 PM p2 Cal 3 -25ng.d p2 Cal 3 -25ng.d	uantRe p2 (2 TS\Q	<u>_</u> THCQ	and P2	9 MDQ P1 Data File	01519 M	1 28\10	019\Aŀ M	D:\MassHunter\Data\20: 10/16/2019 3:26:35 PM	lunter∖ 19 3:2	\MassH)/16/20	D: Falco		pdate	s _ast U	Batch results Calibration Last Update	Batch Calibr

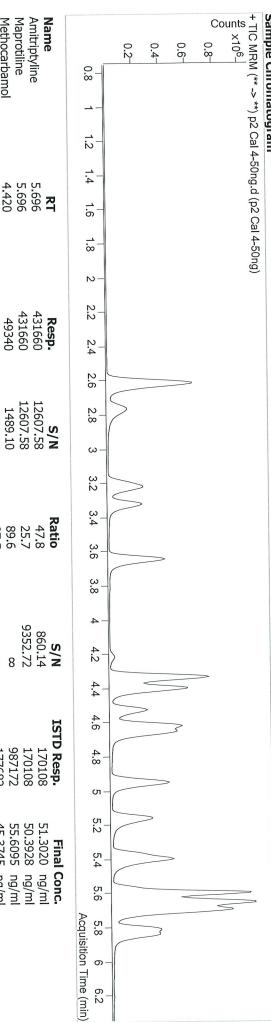
Maprotiline Methocarbamol Midazolam **Name** Amitriptyline Phenytoin Nortriptyline **RT** 5.696 5.696 4.420 5.836 5.711 5.473 **Resp.** 222859 222859 29447 45856 101807 4059 **S/N** 1037.10 1037.10 3961.57 ∞ ∞ 1257.25 47.7 25.9 87.0 84.1 30.3 75.7 3181.51 ∞ **5/N** 3823.78 2081.22 7216.44 1220.27 168109 168109 168109 1121670 198917 147682 8468 Final Conc. 25.9891 ng/ml 25.7398 ng/ml 28.3678 ng/ml 23.4025 ng/ml 24.4416 ng/ml 24.4416 ng/ml

Generated at 3:27 PM on 10/16/2019

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TS

Acq. Method Sample Position Type Instrument **Calibration Last Update Batch results** + TIC MRM (** -> **) p2 Cal 4-50ng.d (p2 Cal 4-50ng) Sample Chromatogram Sample Info. Acq. Date-Time Injection Volume 0.8-P1-D1 Falco Cal MDQ P2 Combined 092319.m 10/15/2019 1:48:45 PM D:\MassHunter\Data\2019\AM 28\101519 MDQ P1 and P2_THCQ TS\QuantResults\MDQ P2 wklst 3755 TS_evaluated compounds.batch.bin 10/16/2019 3:26:35 PM Operator Sample Data File Comment p2 Cal 4-50ng.d p2 Cal 4-50ng



Phenytoin Midazolam Methocarbamol Nortriptyline 5.473 5.717 5.836 4.420 203011 81880 6800 9318.27 8319.04 1231.27 89.6 87.5 30.3 78.1 8 8 8 150917 177682 7188 47.3448 45.3745 46.9099 ng/ml ng/ml ng/ml

p2 Cal 4-50ng

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15

Acq. Method Sample Position Type Instrument **Calibration Last Update Batch results** + TIC MRM (** -> **) p2 Cal 5-100ng.d (p2 Cal 5-100ng) Sample Chromatogram Counts ×10⁶ Sample Info. Acq. Date-Time Injection Volume Name 0.8-0.4-0.6-0.2-1.2 0.8 _ 1.2 1.4 Falco Cal P1-E1 MDQ P2 Combined 092319.m 10/15/2019 1:59:15 PM 1.6 D:\MassHunter\Data\2019\AM 28\101519 MDQ P1 and P2_THCQ TS\QuantResults\MDQ P2 wklst 3755 TS_evaluated compounds.batch.bin 10/16/2019 3:26:35 PM 1.8 N 2.2 Resp. 2.4 2.6 2.8 N/S Sample Operator Data File Comment ω 3.2 3.4 Ratio 3.6 3.8 p2 Cal 5-100ng.d p2 Cal 5-100ng 4 N/S 4.2 4.4 4.6 ISTD Resp 4.8 137406 СЛ 5.2 109.5302 Final Conc. 5.4 ng/ml 5.6 Acquisition Time (min) 5.8 თ 6.2

Phenytoin Amitriptyline Nortriptyline Methocarbamol Maprotiline Midazolam 5.473 5.717 5.836 4.420 5.696 **RT** 5.696 156500 731730 356268 731730 96728 14490 24280.70 24280.70 11070.36 3226.45 5697.28 7212.15 24.3 90.2 86.6 29.7 75.2 48.0 6275.36 2982.98 6835.84 2399.41 2394.54 306.48 1006372 122689 158352 137406 7612 108.5738 107.1032 101.7771 95.7007 94.7926 ng/ml ng/ml ng/ml ng/ml

75

+ TIC MRM (** -> **) p2 Cal 6-250ng.d (p2 Cal 6-250ng) ts ×10⁶_ C **Calibration Last Update** Acq. Method Sample Position Туре **Batch results** Sample Chromatogram Sample Info. Acq. Date-Time **Injection Volume** Instrument 0.75-0.5-1.5-1.25-1-0.25-1.75-P1-F1 Falco Cal MDQ P2 Combined 092319.m 10/15/2019 2:09:46 PM D:\MassHunter\Data\2019\AM 28\101519 MDQ P1 and P2_THCQ TS\QuantResults\MDQ P2 wklst 3755 TS_evaluated compounds.batch.bin 10/16/2019 3:26:35 PM Sample Operator Data File Comment p2 Cal 6-250ng.d p2 Cal 6-250ng

Phenytoin Methocarbamol Maprotiline Amitriptyline Name Nortriptyline Midazolam 0.8 1.2 1.4 5.717 5.836 4.420 5.696 **RT** 5.696 5.473 1.6 1.8 N 2.2 1414495 1414495 654183 315904 195580 Resp. 37387 2.4 2.6 48290.87 47100.62 58136.93 27830.89 27830.89 2408.69 2.8 N/S ω 3.2 3.4 Ratio 20.9 90.0 87.3 30.4 74.2 49.8 3.6 3.8 4 12669.90 1734.61 1013.19 1766.00 1928.26 672.07 N/S 4.2 4.4 4.6 ISTD Resp. 902843 112805 129329 112805 4.8 96273 7624 СЛ 5.2 246.9264 260.2096 244.8181 234.4569 253.8550 237.6706 Final Conc. 5.4 ng/ml ng/ml ng/ml ng/ml ng/ml 5.6 Acquisition Time (min) 5.8 σ

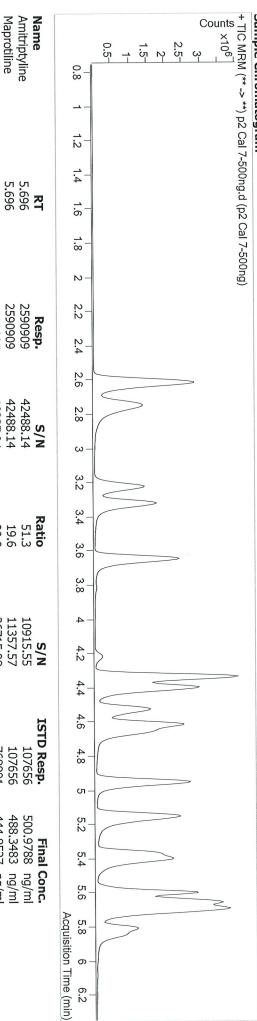
6.2

p2 Cal 6-250ng

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75

Туре Instrument **Calibration Last Update Batch results** + TIC MRM (** -> **) p2 Cal 7-500ng.d (p2 Cal 7-500ng) Sample Chromatogram Sample Info. Sample Position Acq. Method Acq. Date-Time Injection Volume 2.5ώ Falco Cal P1-G1 MDQ P2 Combined 092319.m 10/15/2019 2:20:16 PM D:\MassHunter\Data\2019\AM 28\101519 MDQ P1 and P2_THCQ TS\QuantResults\MDQ P2 wklst 3755 TS_evaluated compounds.batch.bin 10/16/2019 3:26:35 PM Sample Operator Comment Data File p2 Cal 7-500ng.d p2 Cal 7-500ng



Phenytoin Nortriptyline Midazolam Methocarbamol 4.427 5.696 5.717 5.836 5.473 1236877 299085 494268 85912 31654.36 10237.94 2736.73 1716.27 19.6 90.0 86.5 30.3 77.7 36715.98 16580.50 18760.09 1791.70 768801 95206 88083 7277 496.7313 444.8527 589.9437 490.7593 ng/ml ng/ml ng/ml ng/ml

p2 Cal 7-500ng

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Batch results

TS

Туре **Calibration Last Update** Counts + TIC MRM (** -> **) p2 Cal 8-1000ng.d (p2 Cal 8-1000ng) Sample Chromatogram Sample Info. Sample Position Acq. Method Instrument Acq. Date-Time Injection Volume φ Ņ 0.8 1.2 1.4 Falco Cal P1-H1 MDQ P2 Combined 092319.m 10/15/2019 2:30:45 PM 1.6 D:\MassHunter\Data\2019\AM 28\101519 MDQ P1 and P2_THCQ TS\QuantResults\MDQ P2 wklst 3755 TS_evaluated compounds.batch.bin 10/16/2019 3:26:35 PM 1.8 N 2.2 2.4 2.6 2.8 Comment Operator Sample Data File ω 3.2 3.4 3.6 3.8 p2 Cal 8-1000ng.d p2 Cal 8-1000ng 4 4.2 4.4 4.6 4.8 СЛ 5.2 5.4 5.6 Acquisition Time (min) 5.8 თ 6.2

Phenytoin Methocarbamol Maprotiline Amitriptyline Nortriptyline Midazolam Name 5.696 5.836 4.427 5.696 5.473 5.717 3797726 3797726 1837483 660536 187612 424254 Resp. 335977.48 335977.48 208177.54 182336.48 29536.74 4308.14 N/S Ratio 90.5 87.0 29.9 78.3 13.1 53.5 Low 117422.84 49182.19 13171.71 15091.94 2736.26 1920.40 N/S ISTD Resp. 603169 80974 61388 80974 62791 7263 977.9189 952.8564 1022.3346 1028.0143 1291.3253 805.7378 Final Conc. ng/ml ng/ml ng/ml ng/ml ng/ml ng/ml

p2 Cal 8-1000ng

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