REVIEWED
By Celena Shrum at 2:43 pm, Feb 28, 2019

TS B

LAB CASE	ITEM	TASK_ID	DESCRIPTION
P2019-0195	1	142587	AM 28 Blood Multi-Drug



1



Worklist: 2988

 LAB_CASE
 ITEM
 TASK_ID
 DESCRIPTION

 P2019-0239
 1
 142927
 AM 28 Blood Multi-Drug Quant Panel 2 by LC-QC



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

Extraction Date: 02/25/19 Plate lot#: 0530563 Analyst: Tamara Salazar Plate Expiration: 05/21/19

Mobile phase A: 5mM Amm Form + 0.01% FA 0.5M Ammonium Hydroxide Blank Blood Lot: Hemostat 445283-1 LCMS-QQQ ID: 59740 Mobile phase B:0.01% Formic Acid in MeOHEthyl Acetate20% Methanol in WaterColumn:Agilent 120 EC-C18 (2.1x 100-4um)

Pre-Analytic:

- \boxtimes 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.
- \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: 16 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: 022519 MDQ P1 P2 TS Batch Name: P2a wklst 2977_final
- \boxtimes 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: Only Amitriptyline, Etizolam, Maprotiline, Methocarbamol, Midazolam, Nortriptyline evaluated for this run.

Amitriptyline cal 3 dropped due to peaks cutting off.

Curves Linited: Methocarbamol 5-250, Maprotiline 5-250, Etizolam 5-250 Steps 3-16 were performed by Tamara salazar, I, Sarah Pickle witnessel and approved 5 all steps performed in the method.



Idaho State Police Forensic Services

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

Methanol External Control Solution (Lot: 020419)

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

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

Blood External Control Solution (Lot: WS020419)

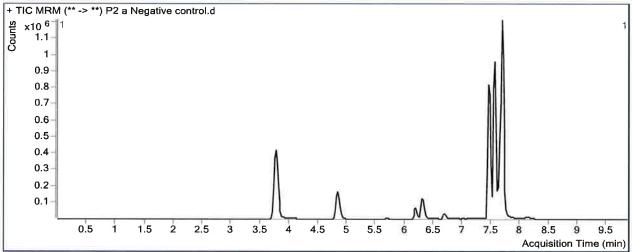
50 ul of methanol external control solution was added to 9950 ul of blood. Approximately 50ng/mL of each compound.

Component	Source	Source Lot Number	
Negative Blood	Hemostat	445283-1	
Methanol External Control Solution	-	020419	
Prepared:	02/04/19		
Prepared by:	Tamara Salazar		
Expires:	02/04/20		

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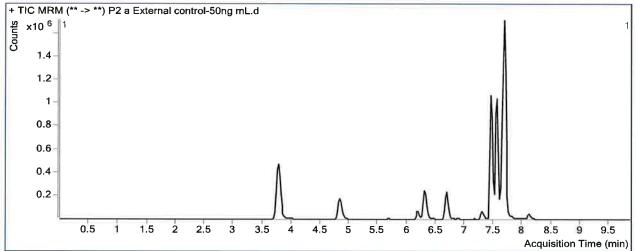
ISP FORENSICS - Pocatello Instrument # 59740 Multi-Drug Confirmatory Analysis Report

Batch Data Path	C:\MassHunter\Data\20	019\AM 28\022519 M	DQ P1 P2 TS\QuantResults\P2a wklst 2977_final.batcl
Analysis Time	2/28/2019 9:01 AM	Analyst Name	datastor
Report Time	2/28/2019 9:04 AM	Reporter Name	datastor
Last Calib Update	2/28/2019 9:01 AM	Batch State	Processed
Analysis Info			
Acq Time	2019-02-25 16:29	Data File	P2 a Negative control.d
Sample Type	Sample	Sample Name	P2 a Negative control.d
Dilution	1	Acq Method	MDQ Panel 2a 06-22-18.m
Position	P1-E6	Sample Info	
Inj Vol	-1	Comment	AM 28-Panel 2



Batch Data Path	C:\MassHunter\Data\2	019\AM 28\022519 M	IDQ P1 P2 TS\QuantResults\P2a wklst 2977_final.batch.bin
Analysis Time	2/28/2019 9:01 AM	Analyst Name	datastor
Report Time	2/28/2019 9:04 AM	Reporter Name	datastor
Last Calib Update	2/28/2019 9:01 AM	Batch State	Processed
Analysis Info			
Acq Time	2019-02-25 16:41	Data File	P2 a External control-50ng mL.d
Sample Type	Sample	Sample Name	P2 a External control-50ng mL.d
Dilution	1	Acq Method	MDQ Panel 2a 06-22-18.m
Position	P1-F6	Sample Info	
Inj Vol	-1	Comment	AM 28; 445283-1 + WS022018 50 ng flunitrazepam, zopiclone, chlorodia:

Sample Chromatogram

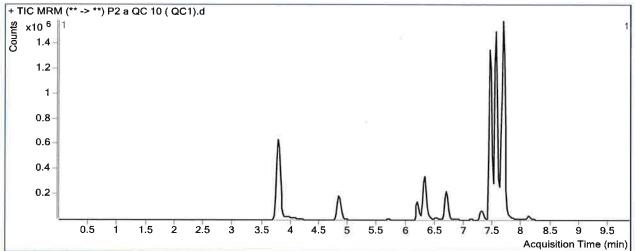


Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Etizolam	Estazolam-D5	7.642	932075	2962489	0.3146	44.3260
Midazolam	Midazolam-D4	7.665	309901	1007330	0.3076	45.3061

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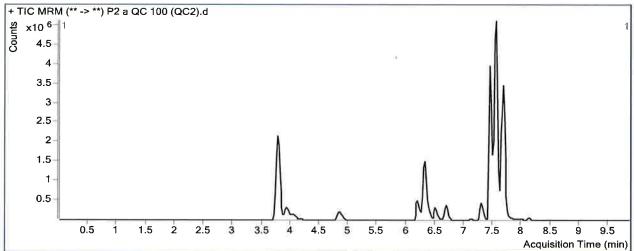
Batch Data Path Analysis Time Report Time Last Calib Update	C:\MassHunter\Data\2 2/28/2019 9:01 AM 2/28/2019 9:04 AM 2/28/2019 9:01 AM	019\AM 28\022519 M Analyst Name Reporter Name Batch State	DQ P1 P2 TS\QuantResults\P2a wklst 2977_final.batch.bin datastor datastor Processed
Analysis Info			
Acq Time	2019-02-25 17:07	Data File	P2 a QC 10 (QC1).d
Sample Type	QC	Sample Name	P2 a QC 10 (QC1).d
Dilution	1	Acq Method	MDQ Panel 2a 06-22-18.m
Position	P1-A6	Sample Info	
Inj Vol	-1	Comment	AM 28-Panel 2



Results						
Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Methocarbamol	Pseudoephedrine-D3	6.387	44885	2517051	0.0178	8.7447
Amitriptyline	Amitriptyline-D3	7.531	125084	285156	0.4387	8.1337
Maprotiline	Amitriptyline-D3	7.531	57003	285156	0.1999	9,3087
Nortriptyline	Nortriptyline-D3	7.554	44645	92492	0.4827	8.9439
Etizolam	Estazolam-D5	7.642	195726	3213793	0.0609	10.2805
Midazolam	Midazolam-D4	7.665	56141	991604	0.0566	9.6832

Batch Data Path	C:\MassHunter\Data\2	019\AM 28\022519 M	DQ P1 P2 TS\QuantResults\P2a wklst 2977_final.batch.bin
Analysis Time	2/28/2019 9:01 AM	Analyst Name	datastor
Report Time	2/28/2019 9:04 AM	Reporter Name	datastor
Last Calib Update	2/28/2019 9:01 AM	Batch State	Processed
Analysis Info			
Acq Time	2019-02-25 17:57	Data File	P2 a QC 100 (QC2).d
Sample Type	QC	Sample Name	P2 a QC 100 (QC2).d
Dilution	1	Acq Method	MDQ Panel 2a 06-22-18.m
Position	P1-B6	Sample Info	
Inj Vol	-1	Comment	AM 28-Panel 2

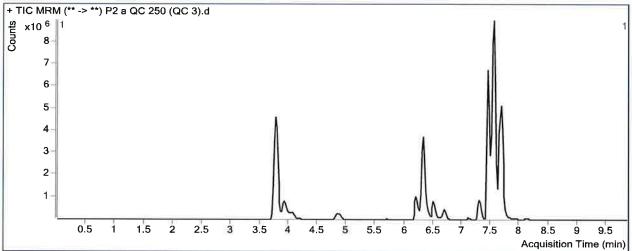
Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Methocarbamol	Pseudoephedrine-D3	6.387	467221	2732549	0.1710	86.7478
Amitriptyline	Amitriptyline-D3	7.531	2045593	437104	4.6799	95.0333
Maprotiline	Amitriptyline-D3	7.511	1011113	437104	2.3132	92.2318
Nortriptyline	Nortriptyline-D3	7.554	752420	139301	5.4014	95.9855
Etizolam	Estazolam-D5	7.642	2139022	2654014	0.8060	110.2548
Midazolam	Midazolam-D4	7.665	756510	1102239	0.6863	99.0454

Batch Data Path	C:\MassHunter\Data\20	19\AM 28\022519 M	DQ P1 P2 TS\QuantResults\P2a wklst 2977_final.batch.bin
Analysis Time	2/28/2019 9:01 AM	Analyst Name	datastor
Report Time	2/28/2019 9:05 AM	Reporter Name	datastor
Last Calib Update	2/28/2019 9:01 AM	Batch State	Processed
Analysis Info			
Acq Time	2019-02-25 18:48	Data File	P2 a QC 250 (QC 3).d
Sample Type	QC	Sample Name	P2 a QC 250 (QC 3).d
Dilution	1	Acq Method	MDQ Panel 2a 06-22-18.m
Position	P1-C6	Sample Info	
Inj Vol	-1	Comment	AM 28-Panel 2
1	-	comment	



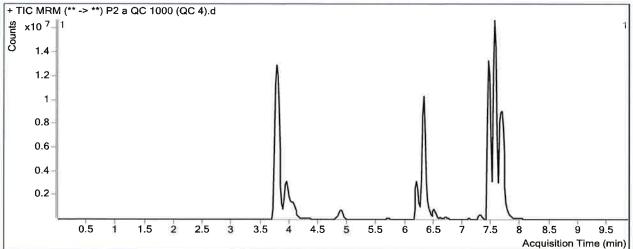
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Methocarbamol	Pseudoephedrine-D3	6.387	914027	2687184	0.3401	172.9042
Amitriptyline	Amitriptyline-D3	7.531	4268871	371450	11.4925	234.6178
Maprotiline	Amitriptyline-D3	7.511	2013211	371450	5.4199	214.1327
Nortriptyline	Nortriptyline-D3	7.554	1575451	109420	14.3982	255.1930
Etizolam	Estazolam-D5	7.642	4429290	1923639	2.3026	311.0742
Midazolam	Midazolam-D4	7.665	1765690	977620	1.8061	257.9490



Batch Data Path	C:\MassHunter\Data\2	019\AM 28\022519 M	DQ P1 P2 TS\QuantResults\P2a wklst 2977_final.batch.bin
Analysis Time	2/28/2019 9:01 AM	Analyst Name	datastor
Report Time	2/28/2019 9:05 AM	Reporter Name	datastor
Last Calib Update	2/28/2019 9:01 AM	Batch State	Processed
Analysis Info			
Acq Time	2019-02-25 19:13	Data File	P2 a QC 1000 (QC 4).d
Sample Type	QC	Sample Name	P2 a QC 1000 (QC 4).d
Dilution	1	Acq Method	MDQ Panel 2a 06-22-18.m
Position	P1-D6	Sample Info	
Inj Vol	-1	Comment	AM 28-Panel 2

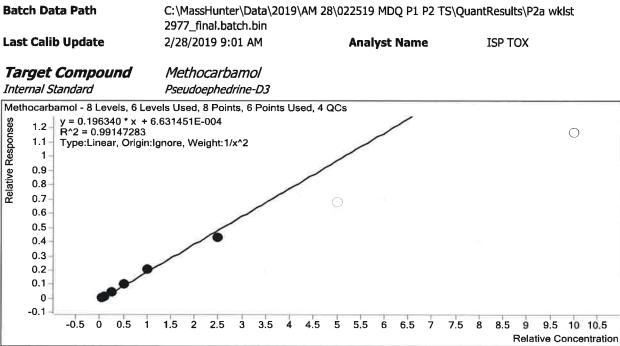
Sample Chromatogram



Results

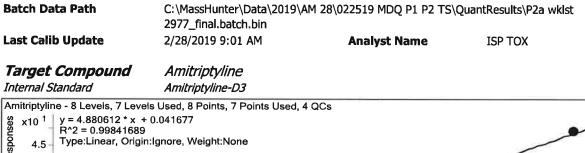
Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Methocarbamol	Pseudoephedrine-D3	6.387	2294404	2302700	0.9964	- 507.1481 Cartside Cure
Amitriptyline	Amitriptyline-D3	7.531	1573384	29563	53.2212	1089.6081 range. TS
Maprotiline	Amitriptyline-D3	7.511	818099	29563	27.6730	-1087.3119 Outside cure
Nortriptyline	Nortriptyline-D3	7.554	552895	8324	66.4228	1175.8237 CongTS
-Etizolam	Estazolam-D5	7.642	11998782	1441293	8.3250	1119.1898 Outside curve
Midazolam	Midazolam-D4	7.665	4922949	630047	7.8136	1110.4578 "ange T

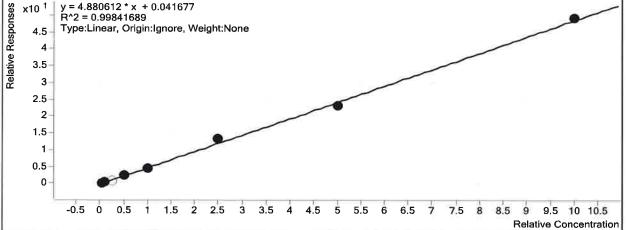




Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng.d	1	M	5	5.1	102.0
P2 a cal 2-10ng.d	2	M	10	9.3	93.5
P2 a QC 10 (QC1).d	2	M	10	8.7	87.4
P2 a cal 3-25ng.d	3	Ø	25	25.5	102.0
P2 a cal 4-50ng.d	4	M	50	53.8	107.6
P2 a cal 5-100ng.d	5	V	100	106.6	106.6
P2 a QC 100 (QC2).d	5	\square	100	86.7	86.7
P2 a cal 6-250ng.d	6	¥	250	221.0	88.4
P2 a QC 250 (QC 3).d	6		250	172.9	69.2
P2 a cal 7-500ng.d	7		500	347.0	69.4
P2 a cal 8-1000ng.d	8		1000	594.5	59.4
P2 a QC 1000 (QC 4).d	8	$\mathbf{\nabla}$	1000	507.1	50.7

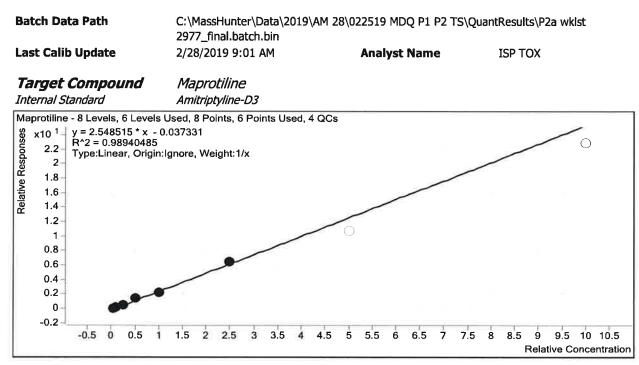






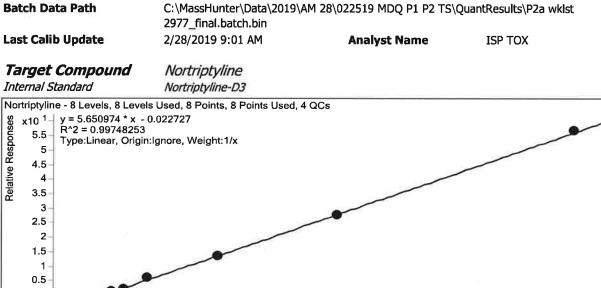
Sample	Level	Enabled	Ехр Сопс	Final Conc	Accuracy	
P2 a cal 1-5ng.d	1	M	5	3.7	73.8	
P2 a cal 2-10ng.d	2	\mathbf{M}	10	10.2	102.2	
P2 a QC 10 (QC1).d	2	☑	10	8.1	81.3 D () () ()	aks
P2 a cal 3-25ng.d	3		25	18.0	72.2 - Point dropped due to pr	
P2 a cal 4-50ng.d	4		50	50.4	81.3 72.2 - Point dropped due to pr 100.9 Cutting off TS	
P2 a cal 5-100ng.d	5	Ø	100	92.4	92.4	
P2 a QC 100 (QC2).d	5	Ø	100	95.0	95.0	
P2 a cal 6-250ng.d	6	Z	250	275.4	110.2	
P2 a QC 250 (QC 3).d	6	Ø	250	234.6	93.8	
P2 a cal 7-500ng.d	7	☑	500	476.9	95.4	
P2 a cal 8-1000ng.d	8	☑	1000	1005.9	100.6	
P2 a QC 1000 (QC 4).d	8		1000	1089.6	109.0	





Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng.d	1	Ø	5	4.9	98.3
P2 a cal 2-10ng.d	2	Ø	10	11.5	114.6
P2 a QC 10 (QC1).d	2	Ø	10	9.3	93.1
P2 a cal 3-25ng.d	3	Ø	25	20.3	81.4
P2 a cal 4-50ng.d	4	Ø	50	57.1	114.2
P2 a cal 5-100ng.d	5	M	100	88.4	88.4
P2 a QC 100 (QC2).d	5	Ø	100	92.2	92.2
P2 a cal 6-250ng.d	6	M	250	257.8	103.1
P2 a QC 250 (QC 3).d	6	Ø	250	214.1	85.7
P2 a cal 7-500ng.d	7		500	419.9	84.0
P2 a cal 8-1000ng.d	8		1000	896.6	89.7
P2 a QC 1000 (QC 4).d	8	Ø	1000	1087.3	108.7

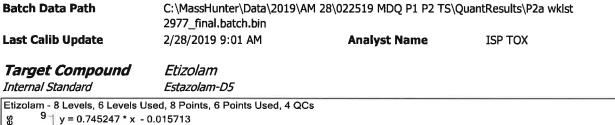


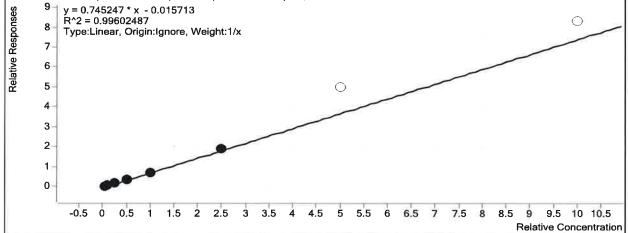


-0.5		-							_							-						- 12	
	-0.5	0	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	Ż	7.5	8	8.5	9	9.5	10	10.5
																				Rela	tive C	once	ntratio

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng.d	1	☑	5	4.4	87.2
P2 a cal 2-10ng.d	2	Ø	10	10.5	105.3
P2 a QC 10 (QC1).d	2	☑	10	8.9	89.4
P2 a cal 3-25ng.d	3	Ø	25	28.1	112.3
P2 a cal 4-50ng.d	4	☑	50	42.2	84.4
P2 a cal 5-100ng.d	5	Ø	100	115.2	115.2
P2 a QC 100 (QC2).d	5	Ø	100	96.0	96.0
P2 a cal 6-250ng.d	6	Q	250	241.8	96.7
P2 a QC 250 (QC 3).d	6	Ø	250	255.2	102.1
P2 a cal 7-500ng.d	7	Ø	500	491.7	98.3
P2 a cal 8-1000ng.d	8	M	1000	1006.2	100.6
P2 a QC 1000 (QC 4).d	8	Ø	1000	1175.8	117.6

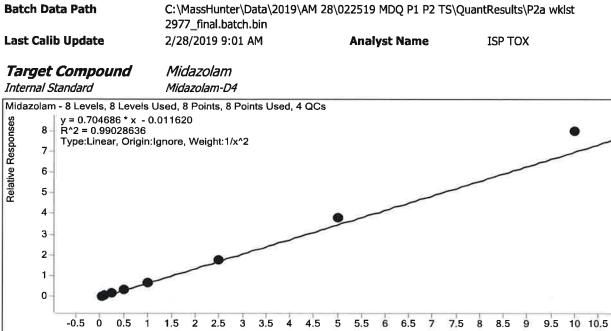
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Sample	Level	Enabled	Ехр Сопс	Final Conc	Accuracy
P2 a cal 1-5ng.d	1	Ø	5	5.9	117.2
P2 a cal 2-10ng.d	2	Ø	10	10.2	101.8
P2 a QC 10 (QC1).d	2	☑	10	10.3	102.8
P2 a cal 3-25ng.d	3	Ø	25	22.5	90.0
P2 a cal 4-50ng.d	4	Ø	50	45.6	91.3
P2 a cal 5-100ng.d	5		100	95.7	95.7
P2 a QC 100 (QC2).d	5	Ø	100	110.3	110.3
P2 a cal 6-250ng.d	6	Ø	250	260.1	104.0
P2 a QC 250 (QC 3).d	6	Ø	250	311.1	124.4
P2 a cal 7-500ng.d	7		500	672.3	134.5
P2 a cal 8-1000ng.d	8		1000	1114.9	111.5
P2 a QC 1000 (QC 4).d	8	Ø	1000	1119.2	111.9



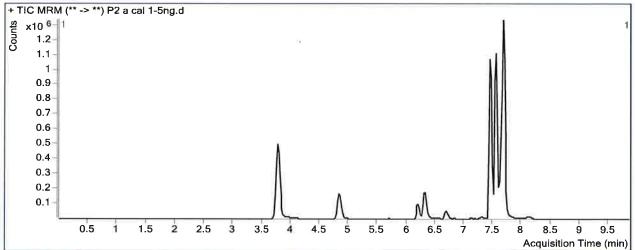


Relative Concentration

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng.d	1	Ø	5	5.4	107.1
P2 a cal 2-10ng.d	2	Ø	10	9.1	90.7
P2 a QC 10 (QC1).d	2	Ø	10	9.7	96.8
P2 a cal 3-25ng.d	3	Ø	25	22.9	91.6
P2 a cal 4-50ng.d	4	Ø	50	46.1	92.3
P2 a cal 5-100ng.d	5	M	100	96.6	96.6
P2 a QC 100 (QC2).d	5	Ø	100	99.0	99.0
P2 a cal 6-250ng.d	6	Ø	250	251.3	100.5
P2 a QC 250 (QC 3).d	6	Ø	250	257.9	103.2
P2 a cal 7-500ng.d	7	M	500	539.4	107.9
P2 a cal 8-1000ng.d	8	Ø	1000	1132.9	113.3
P2 a QC 1000 (QC 4).d	8	Ø	1000	1110.5	111.0

Batch Data Path	C:\MassHunter\Data\201	L9\AM 28\022519 M	DQ P1 P2 TS\QuantResults\P2a wklst 2977_final.batch.bin
Analysis Time	2/28/2019 9:01 AM	Analyst Name	datastor
Report Time	2/28/2019 9:03 AM	Reporter Name	datastor
Last Calib Update	2/28/2019 9:01 AM	Batch State	Processed
Analysis Info			
Acq Time	2019-02-25 14:10	Data File	P2 a cal 1-5ng.d
Sample Type	Calibration	Sample Name	P2 a cal 1-5ng.d
Dilution	1	Acq Method	MDQ Panel 2a 06-22-18.m
Position	P1-A5	Sample Info	
Inj Vol	-1	Comment	AM 28-Panel 2

Sample Chromatogram

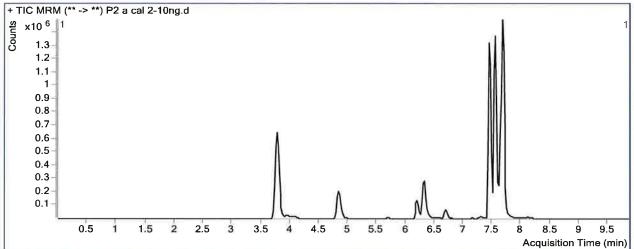


Results						
Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Methocarbamol	Pseudoephedrine-D3	6.407	23766	2225661	0.0107	5.1009
Amitriptyline	Amitriptyline-D3	7.531	9845	44393	0.2218	3.6898
Maprotiline	Amitriptyline-D3	7.511	3903	44393	0.0879	4,9143
Nortriptyline	Nortriptyline-D3	7.534	3530	15784	0.2236	4.3593
Etizolam	Estazolam-D5	7.642	86422	3090123	0.0280	5.8611
Midazolam	Midazolam-D4	7.665	18555	710429	0.0261	5.3552

TSN

Batch Data Path	C:\MassHunter\Data\201	9\AM 28\022519 M	DQ P1 P2 TS\QuantResults\P2a wklst 2977_final.batch.bin
Analysis Time	2/28/2019 9:01 AM	Analyst Name	datastor
Report Time	2/28/2019 9:03 AM	Reporter Name	datastor
Last Calib Update	2/28/2019 9:01 AM	Batch State	Processed
Analysis Info			
Acq Time	2019-02-25 14:22	Data File	P2 a cal 2-10ng.d
Sample Type	Calibration	Sample Name	P2 a cal 2-10ng.d
Dilution	1	Acq Method	MDQ Panel 2a 06-22-18.m
Position	P1-B5	Sample Info	
Inj Vol	-1	Comment	AM 28-Panel 2

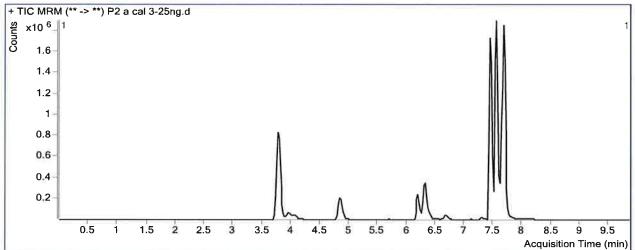
Sample Chromatogram



Results						
Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Methocarbamol	Pseudoephedrine-D3	6.387	48960	2574684	0.0190	9.3475
Amitriptyline	Amitriptyline-D3	7.511	25170	46589	0.5403	10.2155
Maprotiline	Amitriptyline-D3	7.531	11871	46589	0.2548	11.4631
Nortriptyline	Nortriptyline-D3	7.554	9335	16311	0.5723	10.5304
Etizolam	Estazolam-D5	7.642	196238	3263919	0.0601	10.1760
Midazolam	Midazolam-D4	7.665	39753	759927	0.0523	9.0724

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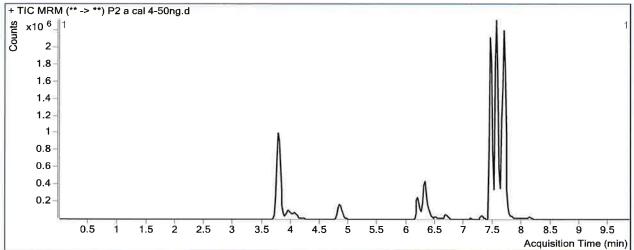
Batch Data Path	C:\MassHunter\Data\2	019\AM 28\022519 M	DQ P1 P2 TS\QuantResults\P2a wklst 2977_final.batch.bin
Analysis Time	2/28/2019 9:01 AM	Analyst Name	datastor
Report Time	2/28/2019 9:03 AM	Reporter Name	datastor
Last Calib Update	2/28/2019 9:01 AM	Batch State	Processed
Analysis Info			
Acq Time	2019-02-25 14:35	Data File	P2 a cal 3-25ng.d
Sample Type	Calibration	Sample Name	P2 a cal 3-25ng.d
Dilution	1	Acq Method	MDQ Panel 2a 06-22-18.m
Position	P1-C5	Sample Info	
Inj Vol	-1	Comment	AM 28-Panel 2



Results						
Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Methocarbamol	Pseudoephedrine-D3	6.387	127484	2514137	0.0507	25.4883
Amitriptyline	Amitriptyline-D3	7.531	35022	37967	0.9224	18.0461
Maprotiline	Amitriptyline-D3	7.511	18270	37967	0.4812	20.3469
Nortriptyline	Nortriptyline-D3	7.554	17389	11125	1.5631	28.0626
Etizolam	Estazolam-D5	7.642	511648	3368865	0.1519	22.4876
Midazolam	Midazolam-D4	7.665	111981	747804	0.1497	22.8991



Batch Data Path	C:\MassHunter\Data\2	019\AM 28\022519 M	DQ P1 P2 TS\QuantResults\P2a wklst 2977_final.batch.bin
Analysis Time	2/28/2019 9:01 AM	Analyst Name	datastor
Report Time	2/28/2019 9:03 AM	Reporter Name	datastor
Last Calib Update	2/28/2019 9:01 AM	Batch State	Processed
Analysis Info			
Acq Time	2019-02-25 14:48	Data File	P2 a cal 4-50ng.d
Sample Type	Calibration	Sample Name	P2 a cal 4-50ng.d
Dilution	1	Acq Method	MDQ Panel 2a 06-22-18.m
Position	P1-D5	Sample Info	
Inj Vol	-1	Comment	AM 28-Panel 2

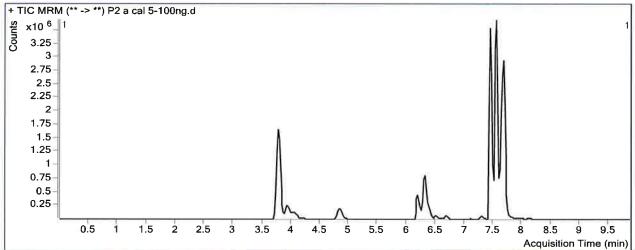


Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Methocarbamol	Pseudoephedrine-D3	6.387	228129	2147037	0.1063	53.7792
Amitriptyline	Amitriptyline-D3	7.531	109964	43936	2.5028	50.4269
Maprotiline	Amitriptyline-D3	7.511	62292	43936	1.4178	57.0965
Nortriptyline	Nortriptyline-D3	7.554	42305	17920	2.3608	42.1789
Etizolam	Estazolam-D5	7.642	928160	2860580	0.3245	45.6464
Midazolam	Midazolam-D4	7.665	235154	749890	0.3136	46.1489

Batch Data Path	C:\MassHunter\Data\201	9\AM 28\022519 M	DQ P1 P2 TS\QuantResults\P2a wklst 2977_final.batch.bin
Analysis Time	2/28/2019 9:01 AM	Analyst Name	datastor
Report Time	2/28/2019 9:03 AM	Reporter Name	datastor
Last Calib Update	2/28/2019 9:01 AM	Batch State	Processed
Analysis Info			
Acq Time	2019-02-25 15:00	Data File	P2 a cal 5-100ng.d
Sample Type	Calibration	Sample Name	P2 a cal 5-100ng.d
Dilution	1	Acq Method	MDQ Panel 2a 06-22-18.m
Position	P1-E5	Sample Info	
Inj Vol	-1	Comment	AM 28-Panel 2

Sample Chromatogram



Results	,
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Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Methocarbamol	Pseudoephedrine-D3	6.387	453624	2160866	0.2099	106.5825
Amitriptyline	Amitriptyline-D3	7.531	235801	51802	4.5519	92.4120
Maprotiline	Amitriptyline-D3	7.511	114751	51802	2,2152	88.3846
Nortriptyline	Nortriptyline-D3	7.534	82878	12774	6.4882	115.2178
Etizolam	Estazolam-D5	7.622	1916978	2747282	0.6978	95.7381
Midazolam	Midazolam-D4	7.665	514898	769678	0.6690	96.5819

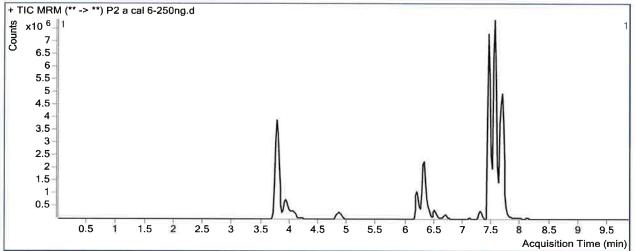
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ISP FORENSICS - Pocatello Instrument # 59740 Multi-Drug Confirmatory Analysis Report

Batch Data Path	C:\MassHunter\Data\2	019\AM 28\022519 M	DQ P1 P2 TS\QuantResults\P2a wklst 2977_final.batch.bin
Analysis Time	2/28/2019 9:01 AM	Analyst Name	datastor
Report Time	2/28/2019 9:03 AM	Reporter Name	datastor
Last Calib Update	2/28/2019 9:01 AM	Batch State	Processed
Analysis Info			
Acq Time	2019-02-25 15:13	Data File	P2 a cal 6-250ng.d
Sample Type	Calibration	Sample Name	P2 a cal 6-250ng.d
Dilution	1	Acq Method	MDQ Panel 2a 06-22-18.m
Position	P1-F5	Sample Info	
Inj Vol	-1	Comment	AM 28-Panel 2

Sample Chromatogram

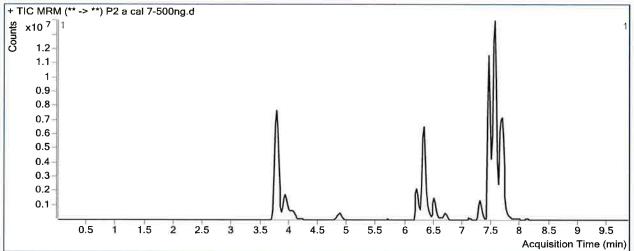


Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Methocarbamol	Pseudoephedrine-D3	6.387	99 7 094	2294101	0.4346	221.0303
Amitriptyline	Amitriptyline-D3	7.531	1538984	114149	13.4822	275.3866
Maprotiline	Amitriptyline-D3	7.511	745691	114149	6.5326	257.7946
Nortriptyline	Nortriptyline-D3	7.554	558945	40967	13.6438	241.8444
Etizolam	Estazolam-D5	7.642	4456960	2318189	1.9226	260.0907
Midazolam	Midazolam-D4	7.665	1379413	784099	1.7592	251.2967

Batch Data Path	C:\MassHunter\Data\2019\AM 28\022519 MDQ P1 P2 TS\QuantResults\P2a wklst 2977_final.batch.bin			
Analysis Time	2/28/2019 9:01 AM	Analyst Name	datastor	
Report Time	2/28/2019 9:04 AM	Reporter Name	datastor	
Last Calib Update	2/28/2019 9:01 AM	Batch State	Processed	
Analysis Info				
Acq Time	2019-02-25 15:26	Data File	P2 a cal 7-500ng.d	
Sample Type	Calibration	Sample Name	P2 a cal 7-500ng.d	
Dilution	1	Acq Method	MDQ Panel 2a 06-22-18.m	
Position	P1-G5	Sample Info		
Inj Vol	-1	Comment	AM 28-Panel 2	

Sample Chromatogram



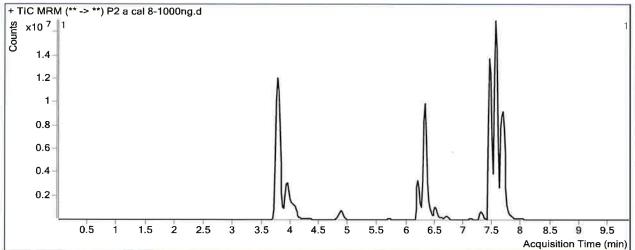
Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Methocarbamol	Pseudoephedrine-D3	6.387	1646639	2414320	0.6820	347.0345
Amitriptyline	Amitriptyline-D3	7.531	6421376	275363	23.3197	476.9481
Maprotiline	Amitriptyline-D3	7.511	2936476	275363	10.6640	419.9049
Nortriptyline	Nortriptyline-D3	7.554	2331539	83987	27.7606	491.6553
Etizolam	Estazolam-D5	7.622	8097158	1621128	4.9948	672.3252
Midazolam	Midazolam-D4	7.665	3040956	802417	3.7897	539.4412

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Batch Data Path	C:\MassHunter\Data\2019\AM 28\022519 MDQ P1 P2 TS\QuantResults\P2a wklst 2977_final.batch.bin				
Analysis Time	2/28/2019 9:01 AM	Analyst Name	datastor		
Report Time	2/28/2019 9:04 AM	Reporter Name	datastor		
Last Calib Update	2/28/2019 9:01 AM	Batch State	Processed		
Analysis Info					
Acq Time	2019-02-25 15:38	Data File	P2 a cal 8-1000ng.d		
Sample Type	Calibration	Sample Name	P2 a cal 8-1000ng.d		
Dilution	1	Acq Method	MDQ Panel 2a 06-22-18.m		
Position	P1-H5	Sample Info			
Inj Vol	-1	Comment	AM 28-Panel 2		

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Methocarbamol	Pseudoephedrine-D3	6.387	2398801	2053997	1.1679	594.4826
Amitriptyline	Amitriptyline-D3	7.531	2798501	56953	49.1368	1005.9212
Maprotiline	Amitriptyline-D3	7.511	1299195	56953	22.8116	896.5577
Nortriptyline	Nortriptyline-D3	7.554	912106	16048	56.8346	1006.1514
Etizolam	Estazolam-D5	7.642	11982135	1444780	8.2934	1114.9477
Midazolam	Midazolam-D4	7.665	4509175	565648	7.9717	1132.8897